



"විශිෂ්ට රාජ්‍ය සේවාවක් සඳහා දැව කැපවෙමු."

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



"ශ්‍රාවස්ති මන්දිරය", 32, ශ්‍රීමත් මාකස් ප්‍රනාන්දු මාවත, කොළඹ 07.
"श्रावस्ती" கட்டிடம், 32, ஸ்ரீமத் மார்க்கசன் பரிணந்த மாவத்தை, கொழும்பு 07.
"Sravasthi Mandiraya", 32, Sir Marcus Fernando Mawatha, Colombo 07.

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මගේ අංකය.
எனது இல. }
My No. }

CSWP/ENG-ADM/8-24/FI/1-A

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உமது இல. }
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திகதி. }
Date. }

2018.03.27

පළාත් ගොඩනැගිලි අධ්‍යක්ෂ/ වාරිමාර්ග අධ්‍යක්ෂ/ අධ්‍යක්ෂ (ඉංජිනේරු),
සාමාන්‍යාධිකාරී, පළාත් බදු මාර්ග සංවර්ධන අධිකාරිය (බ.ප.),
පළාත් සෞඛ්‍ය සේවා අධ්‍යක්ෂ, ප්‍රාදේශීය සෞඛ්‍ය අධ්‍යක්ෂ (කොළඹ, ගම්පහ, කළුතර)
පළාත් පාලන කොමසාරිස් සහ සියලුම පළාත් පාලන ආයතන ලේකම්වරුන්,
බස්නාහිර පළාතේ සියලුම ප්‍රාදේශීය ලේකම්වරුන්,
ප්‍රාදේශීය ඉංජිනේරුවරුන්,

ගොඩනැගිලි ගාස්තු උපලේඛණය-2018/2019

බස්නාහිර පළාතේ පළාත් සභාවේ මූල්‍ය රීති සංග්‍රහයේ රීති අංක 425 ප්‍රකාර ගොඩනැගිලි ඉදිකිරීම්, වැඩ දියුණු කිරීම් සහ නඩත්තු කටයුතු සඳහා මුළු පිරිවැය ඇස්තමේන්තු පිළියෙල කර ගැනීමට උපයෝගී කරගත යුතු ගොඩනැගිලි ගාස්තු උපලේඛණය මේ සමඟ ඉදිරිපත් කරමි. තවද මෙම ලේඛණය බස්නාහිර පළාත් සභාවේ පළාත් ඉංජිනේරු කාර්යාංශයේ වෙබ් අඩවියෙන් (chiefsec.wpc.gov.lk/engi) බාගත හැක. මෙම ලේඛණය 2018.03.26 දින සිට නැවත දැනුම් දෙන තුරු වලංගු වේ.

02. මෙම ලේඛණයේ ඇතුළත් රේට් මිල ගණන් සඳහා එකතු කළ අගය මත බදු (VAT), එකතු කර නොමැත.

03. මෙම ගොඩනැගිලි ගාස්තු ලේඛණයේ සඳහන් මිල ගණන් සකසා ඇත්තේ බස්නාහිර පළාතේ දිස්ත්‍රික්ක තුනම ආවරණය වන පරිදිය. කෙසේ වුවද, මෙහි සඳහන් ද්‍රව්‍ය වල මිල හා ඇතැම් බල ප්‍රදේශ තුළ පවතින මිල ගණන් අතර සැලකිය යුතු වෙනස්කම් තිබෙනම් , ඒ පිළිබඳව මා වෙත දැන්වීමට පියවර ගන්න. එවැනි විශේෂ අවස්ථාවකදී යම් බල ප්‍රදේශයකට පමණක් සීමාවන පරිදි මිල ගණන් සංශෝධනය කිරීමට පියවර ගත හැක. මූලික ගොඩනැගිලි ද්‍රව්‍ය වල මිල ගනන් තීරණය කර ඇත්තේ 2018 වසරේ පෙබරවාරි සහ මාර්තු මාස වල පැවති VAT රහිත මිල ගනන්ය. එම මිල ගනන් සඳහා වට්ටම් ඇතුළත් වී නොමැති අතර NBT ඇතුළත් වේ.

04. මෙම රේට් මිල ගණන් පිළියෙල කර ගැනීමට උපයෝගී කරගෙන ඇති ගොඩනැගිලි ද්‍රව්‍ය සහ භාණ්ඩවල ජරමිතිය (Specification) , ගුණාත්මක බව (quality) සහ ඉදිකිරීම් නිමාව (Workmanship) ශ්‍රී ලංකා ප්‍රමිති (SLS), බ්‍රිතාන්‍ය ප්‍රමිති (BS - EN) 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 අවශ්‍යතාවයන් සහ ගුණාංගයන් සපුරාලන බව උපකල්පනය කරමිනි. ඒ අනුව මෙම මිල ගණන් උපයෝගී කර ගෙන මුළු පිරිවැය ඇස්තමේන්තු සැකසීමේ දී සහ එකී ඇස්තමේන්තු පාදක කරගෙන ගිවිසුම් වලට එළඹ ගෙවීම

විකේත ප්‍රධාන ලේකම් தேதி பிரதம செயலாளர் Deputy Chief Secretary	පාලන நிர்வாகம் Administration Tel: 2693964 Fax: 269479 dsadmin@wpc.gov.lk	පිරිස් හා පුහුණු ஆளணி மற்றும் பயிற்சி Personnel & Training Tel: 2690058 Fax: 2693952 dopt@wpc.gov.lk	මුදල நிதி Finance Tel: 2693978 Fax: 2679958 dfinance@wpc.gov.lk	සැලසුම් திட்டமிடல் Planning Tel: 2693970 Fax: 2676280 dplanning@wpc.gov.lk	ඉංජිනේරු பொறியியல் Engineering Tel: 2693968 Fax: 2689900 dseng@wpc.gov.lk	අභ්‍යන්තර පරීක්ෂක உள்ளக அமைச்சர் Director Internal Audit Tel: 2689011 Fax: 2689011
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කිරීමේ දී ඉහත ප්‍රකාශනවල අඩංගු ප්‍රමිතීන්ට අනුකූල ගොඩනැගිලි ද්‍රව්‍ය පමණක් උපයෝගී කර ගෙන පුහුණු ශ්‍රමිකයන්ගේ දායකත්වයෙන්ව යුතුව ඉදිකිරීම් සිදුවිය යුතු බව අවධාරණය කරනු කැමැත්තෙමි.

05. මෙම රේටි මිල ගණන් පදනම් කරගෙන පිළියෙල කරන ලද මුළු පිරිවැය ඇස්තමේන්තුව , උද්ධමනය හෝ වෙනත් හේතූන් නිසා ප්‍රසම්පාදන මාර්ගෝපදේශ සංග්‍රහයේ වගන්ති අංක 4.3.3 ප්‍රකාරව යාවත්කාලීන කර ගැනීමට අවශ්‍ය අවස්ථාවන්හිදී මිල විචලන සඳහා ICTAD ආයතනයේ ප්‍රකාශිත ලංසු ලේඛන වල ඇතුළත් සූත්‍ර A හෝ B පදනම් කරගෙන රේටි මිල ලේඛණය වලංගු කළ දින සහ ඇස්තමේන්තු කරන දින අතර කාලවකවානුව තුළ සිදුව ඇති මිල විචලනය ගණනය කර ගැනීම සුදුසුය.

06. මෙම ගොඩනැගිලි ගාස්තු උපලේඛණයේ රේටි මිල ගණන් අදාළ කර ගෙන පිළියෙල කරනු ලබන මුළු පිරිවැය ඇස්තමේන්තු තාක්ෂික වනුයේ ප්‍රසම්පාදන සංග්‍රහයේ වගන්ති අංක 3.1, 3.2, 3.3, 3.4, 3.5, 3.6 සහ 3.8 හි සඳහන් ප්‍රසම්පාදන ක්‍රමවේද අනුගමනය කරමින් ඉටු කිරීමට අපේක්ෂිත “වැඩ” කොන්ත්‍රාත් සඳහා පමණි. වගන්ති අංක 3.7 හි සඳහන් සේව්‍යයාගේ සේවකයන් (සෘජු කම්කරු ශ්‍රමය, ද්‍රව්‍ය සහ උපකරණ යොදා Force Account යටතේ) හෝ සේව්‍යා විසින් ද්‍රව්‍ය සපයා ග්‍රාම කොන්ත්‍රාත් මත හෝ ප්‍රජා දායකත්වය යටතේ ඉදිකිරීමට අපේක්ෂිත වැඩ සඳහා මෙම රේටි මිල ගණන් වලංගු නොවන අතර එවැනි ඉදිකිරීම් සඳහා 20% ලාභාංශ සහ අනෙකුත් වියදම් සමානුපාතිකව අඩුකර මුළු පිරිවැය ඇස්තමේන්තු සකස් කළ යුතුවේ.

07. මෙම ගොඩනැගිලි ගාස්තු ලේඛනයේ වැඩ විස්තර සහ රේටි මිල ගණන් පදනම් කර ගෙන සකස් කර ගන්නා ප්‍රසම්පාදන ලියකියවිලි කට්ටලයට ඇතුළත් විය යුතු අනෙකුත් ලිපි ලේඛන සහ ගොඩනැගිලි ගාස්තු ලේඛණය පරිශීලනය කිරීමේදී සෑම නිලධාරියෙකු විසින්ම දැන සිටිය යුතු කරුණු සංක්ෂිප්තව ඇස්තමේන්තු අත්පොතේ (Estimating manual) හි ඇතුළත් කර ඇත. එම අත්පොත ඉහත වෙබ් අඩවියේ ඇතුළත් කර ඇත. මෙම අත්පොත නිරන්තරයෙන් යාවත්කාලීන වන ලේඛණයක් බැවින් වරින් වර වෙබ් අඩවියට ඇතුළු වී යාවත්කාලීන කරන ලද ලේඛණයේ (version) අංකය සමග සසඳා පරිශීලනයට ගත යුතු වේ.

08. පරිසරයට සිදුවන හානිය අවම කර ගැනීම සඳහා රජය විසින් නිකුත් කර ඇති වක්‍රලේඛ වල උපදෙස් ප්‍රකාර ගංගා වලින් ලබා ගන්නා වැලි වෙනුවට ශ්‍රී ලංකා ඉඩම් ගොඩකිරීම් හා සංවර්ධනය කිරීමේ සංස්ථාව (SLRDC) විසින් අලෙවි කරනු ලබන “manufactured sand” හෝ “washed off-shore sand” යොදා ගත හැකි පරිදි රේටි මිල ගනන් ගලපා ඇත.

09. මෙම රේටි මිල ගනන් ගනනය කිරීමට පදනම් කර ගත් කම්කරු ගාස්තු, විශේෂිත ශ්‍රම කොන්ත්‍රාත්කරුවන්ගේ සේවා ගාස්තු, විශේෂිත උප කොන්ත්‍රාත්කරුවන්ගේ (එනම් ද්‍රව්‍ය සහ ශ්‍රමිකයන් සමඟ සේවා/ වැඩ සපයන්නන්ගේ) සේවා ගාස්තු, ගොඩනැගිලි ද්‍රව්‍ය මිල ගනන්, නිම් භාණ්ඩ වල මිල ගනන්, සහ ප්‍රවාහන ගාස්තු ඉහත වෙබ් අඩවියේ ඇතුළත් කර ඇත.

10. තරඟකාරී මිල ගනන් යටතේ ලංසු කැඳවීමේදී රේටි මිලක තාක්ෂික බව තීරණය වනුයේ විවිධ සාධක මතය. ඉන් ප්‍රධාන සාධක කිහිපයක් පහත දැක්වේ.

- I. කොන්ත්‍රාත්කරුවකු විසින් ප්‍රමාණ බිල්පතට අයත් වැඩ කොටස් ඉටු කරනු ලබන ආකාරය (එනම් අයිතම අංක 11 “අ” සිට “ඇ” දක්වා වූ ක්‍රමවේද අතුරින් එකක් මත වීම)
- II. ඉටුකරනු ලබන ඉදිකිරීමේ අවධානම (risk) මත
- III. ඉදිකිරීමට අදාළ ප්‍රාරම්භක අයිතම (preliminaries) ප්‍රමාණ බිල්පතට ඇතුළත්ව තිබේද යන්න මත

- IV. කොන්ත්‍රාත්කරුවකු සතු උපකරණ සහ අනෙකුත් මෙවලම්
- V. ඉදිකිරීමක සීමිත කොටසක් පමණක් නිම කළ යුතුව තිබෙන අවස්ථාවක කම්කරු දායකත්වයට වඩා ද්‍රව්‍ය වල දායකත්වය වැඩි වීම සහ/ හෝ විශේෂිත උප කොන්ත්‍රාත්/ ග්‍රාම කොන්ත්‍රාත් ලබා දීම සීමිත වීම.
- VI. කොන්ත්‍රාත්කරුවන්ගේ ඉදිකිරීම් කළමනාකරණ හැකියාව
- VII. සේව්‍යාගේ මූල්‍ය හැකියාව, විශ්වාසනීයත්වය සහ කොන්ත්‍රාත් කළමනාකරණයට සම්බන්ධ නිලධාරීන්ගේ ප්‍රවීණත්වය
- VIII. ඉදිකිරීමේ සංකීර්ණ බව හා ව්‍යාපෘතියේ භූගෝලීය පිහිටීම
- IX. කොන්ත්‍රාත්කරුවකු විසින් ගොඩනැගිලි ද්‍රව්‍ය මිලදී ගැනීමේදී එම ද්‍රව්‍ය සඳහා ලබා ගන්නා වට්ටම් සහ සහන ගෙවීම් කාලය මත
- X. ලංසුව ඉදිරිපත් කරන අවස්ථාවේ කොන්ත්‍රාත්කරු සතුව පවත්නා අනෙකුත් වැඩ වල වටිනාකම

මෙම සියළු කරුණු පදනම් කර ගෙන මුළු වර්ෂයකටම ස්ථාවර වූ රේට් මිල ගනනක් තීරණය කිරීම ප්‍රායෝගික නොවේ. එබැවින් මෙම රේට් මිල ගනන් තීරණය කර ඇත්තේ මිලියන 150 ට අඩු වටිනාකමින් යුතු මහල් 5 කට පමණ සීමා වන ගොඩනැගිලි ඉදිකිරීම් කටයුතු සඳහා පහත අංක 11 හි සඳහන් ක්‍රමවේද අතුරින් එක් ක්‍රමවේදයක් අනුගමනය කරමින් මෙම ලේඛනයේ සඳහන් ප්‍රමිතීන්ට අනුකූල ගොඩනැගිලි ද්‍රව්‍ය සහ පුහුණු ශ්‍රමිකයන් යොදා ගනිමින් ඉදිකිරීම් ඉටුකරනු ලබන්නේ යැයි යන උපකල්පනය මත රඳා පවතී.

එම නිසා මෙම රේට් මිල ගනන් හුදෙක් ඇස්තමේන්තුගත රේට් මිල ගනන් බවට අවධාරණය කරනු ලබන අතර ඒවායේ නිරවද්‍යතාව බොහෝ දුරට ඉදිකිරීමේ ස්වභාවය, පිහිටීම සහ සංකීර්ණත්වය මත රඳා පවතී.

මෙම රේට් මිල ගනන් වලට අයත් නොවන රේට් මිල ගනන් තීරණය කිරීමේදී මෙම ලේඛනයට පදනම් කර ගත් කම්කරු ගාස්තු සමඟ ඉදිකිරීම් ඉටුකිරීමට යෝජිත ප්‍රදේශයෙන් ලබාගත් ද්‍රව්‍ය මිල ගනන් හෝ මෙහි ඇතුළත් මිල ගනන් සමඟ 20% ලාභාංශය ඇතුළත් වන පරිදි ඉදිකිරීම් ඉටුකිරීමට උපයෝගී කර ගත හැකි ක්‍රමවේදය “method statement” පිළිබඳව නිසි අවබෝධයෙන් යුතුව පිළියෙල කර ප්‍රාදේශීය ඉංජිනේරුගේ අනුමැතිය ගත යුතු අතර ගොඩනැගිලි අධ්‍යක්ෂ/ අධ්‍යක්ෂ ඉංජිනේරුගේ අවධානයට යොමුකර අනාගතයේදී පරිශීලනය සඳහා ඩිජිටල් තාක්ෂණයෙන් ගබඩා කිරීම සඳහා පියවර ගත යුතු වේ.

11. තවද මෙම රේට් මිල ගනන් ගණනය කිරීම සඳහා නිරන්තරයෙන් එකතුවන නවීන තාක්ෂණ මෙවලම්” උපකරණ යොදා ගනිමින් අඩු ශ්‍රමයක් උපයෝගී කර ගෙන ඉටු කරනු ලබන කාර්යයන් සඳහා සම්ප්‍රදායික මිල විශ්ලේෂණ පදනම් කර ගෙන ගණනය කරනු ලබන රේට් මිල ගනන් තාත්වික නොවන බව පසුගිය වසර 10 තුළ සිදු කළ අධ්‍යයනයේදී නිරීක්ෂණය විය. ඒ අනුව වර්තමානයට ගැලපෙන පරිදි “work study” සහ “method study” මගින් තහවුරු කරගත් ගොඩනැගිලි මිල විශ්ලේෂණයක අවශ්‍යතාව පිළිබඳව අවධාරණය කරනු ලබන අතර එතෙක් පහත ක්‍රම අතුරින් වඩාත් සුදුසු යැයි සහ මධ්‍ය පරිමාණයේ ගොඩනැගිලි ඉදිකිරීම් සහ CIDA ආයතනයේ ලියාපදිංචි කොන්ත්‍රාත්කරුවන් වැඩි දෙනෙකු විසින් අනුගමනය කරනු ලබන ක්‍රමවේද මත රඳා පවත්වා මෙම රේට් මිල විශ්ලේෂණය කර ඇත. එසේ විශ්ලේෂණය කරන ලද මිල ගනන් වල තාත්වික බව ඉදිකිරීම් කර්මාන්ත ක්ෂේත්‍රයේ නියුතුවන් සමඟ සාකච්ඡා කර තහවුරු කර ඇත.

(අ) කොන්ත්‍රාත්කරු විසින් භාන්ඩ මිලදී ගෙන තම සාප්ප කම්කරුවන් (පුහුණු සහ නුපුහුණු) යොදවා ඉටු කරනු ලබන කාර්යයන් (මෙම කාර්යයන් විශ්ලේෂණය සඳහා CIDA ආයතනයෙන් මුද්‍රණය කර අලෙවි කරන මිල විශ්ලේෂණ ලේඛනය හැකිතාක් දුරට පාදක කර ගනිමින්)

(ආ) ප්‍රධාන කොන්ත්‍රාත්කරු ද්‍රව්‍ය සපයා විශේෂිත සේවා සපයන උප කොන්ත්‍රාත් ග්‍රම්කයන් යොදවා (නිදසුන : පින්තාරු කිරීම)

(ඇ) අදාළ අයිතම උප කොන්ත්‍රාත්තුවක් ලෙස විශේෂිත උප කොන්ත්‍රාත්කරුවන් (ද්‍රව්‍ය සහ ග්‍රමය සපයා) මගින් ඉටු කරනු ලබන කාර්යයන් (නිදසුන : ජල ප්‍රතිරෝදනය)

12. මෙම රේට් මිල ගනන් තුළ යම් ඉදිකිරීමකට අදාළ වන්නා වූ පහත සඳහන් ප්‍රාරම්භක අයිතම (preliminaries) වල මිල අඩංගු නොවේ. එබැවින් යම් වැඩකට ප්‍රමාණ බිල්පත පිළියෙල කිරීමේදී ඉදිකිරීමේ ස්වභාවය අනුව පහත සඳහන් ප්‍රාරම්භක (preliminaries) අයිතම ලංසුකරුට තරඟකාරී ලෙස මිල කිරීම සඳහා ප්‍රමාණ බිල්පතට ඇතුළත් කිරීම අනිවාර්ය වේ.

- I. කාර්ය සාධන ඇපකරය (performance bond), අත්තිකාරම් ඇපකරය (advance payment bond), රක්ෂණ ඇපකර (රක්ෂණය ආවරණය විය යුතු workman compensation, third party සහ work යනාදිය ඇතුළුව)
- II. තාවකාලික ජල, විදුලි සම්බන්ධතා සහ එකී සේවා සඳහා මාසික බිලපත් පියවීම
- III. සේවකයින්ගේ/ කම්කරුවන්ගේ නේවාසික සහ සනීපාරක්ෂක පහසුකම්, ගබඩා පහසුකම් ආරක්ෂක මෙවලම් (safety gear), පරිසර සංරක්ෂණ ක්‍රමවේද
- IV. ඉදිකිරීමේ සංකීර්ණත්වය මත පූර්ණ කාලීනව නේවාසික අධීක්ෂණය හෝ අර්ධ කාලීන අධීක්ෂණ පදනම (continuous or periodic supervision) සඳහා යෙදවිය යුතු ඉංජිනේරුවරයාගේ/ තාක්ෂණ නිලධාරීන්ගේ වැටුප
- V. කොන්ත්‍රාත්තුවේ "ඉංජිනේරුවරයා" සහ ඔහු විසින් අධීක්ෂණයට පත් කරනු ලබන නිලධාරීන්ට වැඩබිමේ සපයා දිය යුතු පහසුකම් (තාවකාලික කාර්යාල, කාර්යාල උපකරණ, කාර්යාල ගෘහභාණ්ඩ, සන්නිවේදන පහසුකම් යනාදිය)
- VI. වැඩබිමේ බාහිර ආවරණය, ආරක්ෂිත දැල්. ආරක්ෂණ සේවා
- VII. අවස්ථානුකූලව මහල් ගොඩනැගිල්ලක් සඳහා බාහිරින් යෙදිය යුතු පලංචි
- VIII. ඉදිකිරීම් "setting out" සඳහා අදාළ උපදේශණ සේවා

ඉහත සඳහන් අයිතමයන්ද ඇතුළත් ජරාමහක අයිතම ලැයිස්තුවක් (preliminary items) වෙබ් අඩවියේ ඇතුළත් කර ඇති අතර එම අයිතම අතුරින් ඉදිකිරීමට අත්‍යවශ්‍ය වන්නාවූ අයිතම පමණක් ඇතුළු කළ යුතු වේ.

13. එක් එක් රේට් මිල ගනන් වලට ඇතුළත් විය යුතු අයිතම පිළිබඳ විග්‍රහයක් "General preamble" සහ "Pricing preamble" වල ඇතුළත් කර ඇති අතර එකී ලේඛන මෙම රේට් මිල ගනන් වලට කොටසක් ලෙස සැලකිය යුතු අතර මෙම රේට් මිල ගනන් පදනම් කර ගෙන සකස් කරනු ලබන ප්‍රමාණ බිල්පත් ලංසු කැඳවීමට උපයෝගී කර ගන්නා අවස්ථාවන්හිදී එකී "General preamble" සහ "Pricing preamble" ද ලංසු ලේඛන වල කොටසක් විය යුතු අතර ඒවාද පැහැදිලිව ඇතුළත් වී ඇති බවට සනාථ කර ගත යුතු වේ. මෙම "General preamble" සහ "Pricing preamble" අවස්ථානුකූලව සහ වරින් වර වැඩිදියුණු කරනු ලබන බැවින් ලංසු කැඳවන අවස්ථාවේ වෙබ් අඩවියේ ඇතුළත් යාවත්කාලීන කරන ලද නව පිටපත බාගත (download) කරගත යුතු බව අවධාරණය කරමි.

14. මෙම රේට් මිල ගනන් හුදෙක් උපකල්පන මත රැඳෙමින් සකස් කරන ලද ඇස්තමේන්තු ගත රේට් මිල ගනන් බව අවධාරණය කරනු ලබන අතර තරඟකාරී ක්‍රමයට කැඳවන ලද ලංසු එකිනෙක සමඟ සැසඳීම සඳහා පාදක කර ගත යුතු මෙවලමක් ලෙස භාවිතා කිරීමට සහ යම් ව්‍යාපෘතියකට මුදල් වෙන් කිරීමේදී මුළු පිරිවැය

15. මුළු පිරිවැය ඇස්තමේන්තු පිළියෙල කිරීමේදී භාවිතා කිරීම සඳහා මෙම ලේඛනයේ පිටපත් අදාල තාක්ෂණ නිලධාරීන් වෙත කරුණාකර නිකුත් කරන්න.

නියෝජ්‍ය ප්‍රධාන ලේකම් (ඉංජිනේරු),
බස්නාහිර පළාත.

1.	ප්‍රධාන ලේකම් (බ.ප.)	: කරු.දැ.ස.
2.	දිස්ත්‍රික් ලේකම්වරුන් (කොළඹ/ ගම්පහ/ කළුතර)	: දිස්ත්‍රික් ලේකම් කාර්යාලයේ ඉංජිනේරුවරුන්ගේ දැනගැනීම සඳහා යොමුකරන්න
3.	බස්නාහිර පළාතේ සියලුම අමාත්‍යාංශ ලේකම්වරුන්	: දැ.ස.
4.	නියෝජ්‍ය ප්‍රධාන ලේකම් (මූල්‍ය/ සැලසුම්)	: දැ.ස.
5.	අධ්‍යක්ෂ (අභ්‍යන්තර විගණන)	: දැ.ස.
6.	විගණන අධිකාරී	: දැ.ස.

BUILDING SCHEDULE OF RATES

2018/2019

EFFECTIVE FROM 2018.03.27



VERSION 01 OF 2018/03/27

**PROVINCIAL ENGINEERING ORGANIZATION
WESTERN PROVINCE-PROVINCIAL COUNCIL**

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
	<u>B - EXCAVATION & EARTH WORK</u>		
	<u>Excavation</u>		
B 01	Site preparation manually including clearing site vegetation, removing bushes, shrubs and all debris away from site.	Sqr.	810.00
B 02	Site preparation including clearing site vegetation, removing bushes, shrubs & top soil to a depth not exceeding 6" and removing all debris away from site.	Sqr.	2,230.00
B 03	Manual Excavation over site to reduce level in any material (except rock requiring blasting) including depositing and levelling as directed up to a distance not exceeding 30'-0".	Cube	3,310.00
B 04	Manual Excavation over site to reduce level in any material (except rock requiring blasting) including depositing and levelling as directed distance exceeding 30'-0" but not exceeding 1/4 mile.	Cube	3,635.00
	Shoring, dewatering and rock blasting if necessary for the excavation, shall be paid separately for items B05 to B07		
B 05	Manual Excavation for column, wall, staircase foundations in any material (except rock requiring blasting) up to 5'-0" depth, part return fill in and ram and surplus deposited within site as directed.	Cube	4,660.00
B 06	Manual Excavation for column, wall, staircase foundations in any material (except rock requiring blasting) depth exceeding 5'-0" but not exceeding 10'-0", part return fill in and ram and surplus deposited within site as directed.	Cube	7,090.00
B 07	Manual Excavation for column, wall, staircase foundations in any material (except rock requiring blasting) depth exceeding 10'-0" but not exceeding 15'-0", part return fill in and ram and surplus deposited within site as directed.	Cube	9,250.00
B 08	Bulk excavation using Excavator 120 Hp (measured on earth volume before disturbance based on initial and final spot levels on a 1m x 1m grid)	Cube	665.00
B 09	Bulk excavation using Excavator 120 Hp including operator, fuel, etc..(based on machine hours)	Per Machine Hour	4,200.00
B 10	Bulk excavation using Excavator 70 Hp including operator, fuel, etc..(based on machine hours)	Per Machine Hour	3,000.00
	<u>Earth Work Supports</u>		
	(Refer clause 2.2.13 of ICTAD/SCA/4/I/of July 2004 for diagramme of planking system for Item No.B11 & B12)		

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
B 11	Temporary earth work supports, in open planking in trenches total depth up to 5'-0", distance between opposing faces not exceeding 6'-6" (shoring designed to carry soil load only)	Sq.ft.	116.00
B 12	Temporary earth work supports, in close planking in trenches of loose soil, total depth up to 5'-0", distance between opposing faces not exceeding 6'-6" (shoring designed to carry soil load only)	Sq.ft.	182.00
B 13	Temporary shoring with steel R.S.J's/Timber plank/Steel plate combination; with steel R.S.J's (6" x 6" x 10 mm) vertically driven at permissible intervals and timber planks or steel sheets inserted between R.S.J's; the R.S.J's shall be driven to an appropriate depth below the final formation of the bottom of excavation to withstand as free-standing cantilevers to hold back the unsupported earth. (Shoring designed to carry soil load only) Contractor shall design the shoring method based on soil report recommendations to suit the specific site requirements and method specification to be submitted before excavation to the Divisional Engineer for approval.	Sq.ft.	865.00
	<u>Filling & Compaction</u>		
	<u>Note:-</u>		
	Approved earth shall mean filling materials that comply to the following :		
(a)	The earth shall be free of vegetation, roots, boulders, easily decomposable materials, chemicals, industrial waste, plastic etc.		
(b)	The maximum size of particle shall not exceed 75mm.		
(c)	The earth shall be well graded and the silt and clay (fines) content shall not be more than 25%		
(d)	The Standard proctor density shall be greater than 1.70g/cm³		
B 14	Approved Earth spreading , leveling watering and compaction manually using standard cast iron stamper or equivalent and filling in 150 mm thick layers (loose volume) in restricted areas (Earth available at site) - Earth measured as a volume in loose state before spreading and compaction. (Small quantities not exceeding 5.0 Cubes for the entire work are permitted)	Cube	3,310.00
B 15	Approved earth supplying and piled at site (measured at piled volume)	Cube	6,300.00
B 16	Transport of any Material / Debris by any means including loading and Unloading (for distance less than or equal 3 kilometers)	Cube	860.00
B 17	Transport of any Material / Debris by any means excluding loading (from 3km up to 10km Distance)	Cube/km	81.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
B 18	Transport of any Material / Debris by any means excluding loading (for distance more than 10 km Distance)	Cube/km	73.00
B 19	River Sand supply and piled at site. Rate is applicable for loose volume. In case where measurements are to be done on compacted volume multiply the rate by 1.15.	Cube	16,170.00
B 20	Dense graded 37.5mm aggregate base course (ABC) supplying, spreading , levelling , watering in 225mm thick layers and compaction using machine Rammer. (measured on loose volume). Rate include hire charges of the machine rammer & exclude transport).	Cube	8,285.00
B 21	Graded Quarry dust 4.5mm downwards supplying, spreading , levelling , watering in 225mm thick layers and compaction using machine Rammer.(loose volume). Rate include hire charges of the machine rammer. In case where measurements are to be done on compacted volume multiply the rate by 1.20.	Cube	13,870.00
B 22	Spreading & Levelling manually & Compaction of Earth including watering in 225mm thick layers (measured on piled volume) using machine Rammer. Rate include hire charges of the machine rammer. This rate is applicable for building construction with earth work not exceeding 50 cubes. (earth available at site).	Cube	1,840.00
B 23	Manually spreading and levelling piled approved earth (applicable for filling out side the building area) rate without compaction.	Cube	440.00
	<u>Test</u>		
B 24	Conducting a Proctor density check on sample fill material.	Per Test	3,240.00
B 25	Testing the Field density of the compacted earth fill using Sand cone method.	Per Test	2,160.00
	<u>Anti-termite Treatment</u>		
B 26	Anti-termite treatment for the new construction with applying Biflexthrine 10Tc (Biflex) or approved equivalent as per manufacturer's standards of application including horizontal & vertical barriers with 10 years warranty on application (Measured on plinth area).	Sq.ft.	28.00
B 27	Anti-termite treatment for the post construction (Existing building) with applying Biflexthrine 10Tc (Biflex) or approved equivalent as per manufacturer's standards of application with 5 years warranty on application (Measured on plinth area). .	Sq.ft.	35.00
	<u>C - CONCRETE</u>		
	Rates for concrete are grouped under following categories		
	1. In-situ plain concrete (mixed at site either manually or with machine) Item No. C01, C02, C03		
	2. Reinforced concrete of Grade 25 (mixed at site with a concrete mixer) Item No. C04, C05 & C06.		

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
	These items are meant for Footings, Columns, Plinth beams, Floor beams, Tie-beams & Stair case. i.e. load bearing members.		
	3. Ready mixed concrete of Grade 20 ,Grade 25 & Grade 25. Item Nos. from C29 to C31.		
	4. Site produced concrete of Grade 20 - (machine mix or in case of small quantities manually mixed) Item No.C12 (along with Item Nos. from C13 to C28 which are derived from C12)		
	These items are meant for pre-cast lintols, stiffeners, copings,concrete drains, etc.		
	<u>IN - SITU PLAIN CONCRETE</u> (mixed at site either manually or with machine)		
C 01	Cement concrete 1:3:6 (1 1/2") in wall foundations including placing, compacting and curing.	Cube	40,505.00
C 02	Cement concrete 1:3:6 (1") laid to a thickness of 2" in wall foundations, under column/stair footings, including placing in position,compacting and curing.	Sqr.	7,532.00
C 03	Cement concrete 1:3:6 (1") in wall foundations, under column/stair footings including placing in position,compacting and curing.	Cube	45,190.00
	<u>IN - SITU REINFORCED CONCRETE OF GRADE 25 &30</u> (mixed at site with a concrete mixer)		
1	Grade 25 concrete shall be used for footings, columns, beams, staircases, tie-beams of reinforced concrete elements in multi-storied building (excluding lintols, stiffener columns, copings, non-structural columns and Drains).		
	Site mixed Grade 30 concrete shall be used only for specific structural works with the approval of the Divisional Engineer.		
2	The rates appearing in BSR Item No. C04,C05 and C06 are strictly applicable for Grade 25 concrete produced at site with machine mixer and shall comply to the following requirements in order to be eligible for payment		
3	Constituent material shall comply to following;		
	(i) Cement of strength class 42.5N and shall comply with SLS 107 (Ordinary Portland Cement), that has been stored under proper conditions and has manufactured within 90 days at the time of concreting.		
	(ii) Use of sulfate resistant Portland Cement or Blended Hydraulic Cement confirming to BSEN 197-1:2011. Sulfate resistant class is recommended for aggressive environmental conditions with the specific approval of Divisional Engineer.		

ITEM NO.	DESCRIPTION	UNIT	RATE 2018														
	(iii) Clean river sand without impurities and clay particles of grain distribution falling within the prescribed grading limit in BS 882:1992.																
	(iv) Well graded coarse aggregate free of impurities with maximum aggregate size being 20mm. grain distribution falling within the prescribed grading limit in BS 882:1992.																
	(v) Clean portable water																
4	Volume batching of constituent material																
(a)	The equivalent nominal mix suggest for volume batching the Grade 25 & 30 concrete is given in table 4.4 of ICTAD specification for Building Work SCA/4/I of July 2004 for a 50kg cement bag and measuring boxes is reproduced below.																
	Table 4.4																
	<table border="1"> <thead> <tr> <th rowspan="2">Specified mix</th><th rowspan="2">Equivalent Concrete Grade</th><th colspan="2">Quantities per 50 kg bag of</th></tr> <tr> <th>Fine Aggregate</th><th>Coarse Aggregate</th></tr> </thead> <tbody> <tr> <td>1:1 1/2:3</td><td>25</td><td>0.053 m³ 1 1/2 boxes</td><td>0.105m³ 3 boses</td></tr> <tr> <td>1:1:2</td><td>30</td><td>0.035 m³ 1 box</td><td>0.07 m³ 2 box</td></tr> </tbody> </table>	Specified mix	Equivalent Concrete Grade	Quantities per 50 kg bag of		Fine Aggregate	Coarse Aggregate	1:1 1/2:3	25	0.053 m ³ 1 1/2 boxes	0.105m ³ 3 boses	1:1:2	30	0.035 m ³ 1 box	0.07 m ³ 2 box		
Specified mix	Equivalent Concrete Grade			Quantities per 50 kg bag of													
		Fine Aggregate	Coarse Aggregate														
1:1 1/2:3	25	0.053 m ³ 1 1/2 boxes	0.105m ³ 3 boses														
1:1:2	30	0.035 m ³ 1 box	0.07 m ³ 2 box														
(b)	Coarse aggregate to be proportioned for the volume batching using the measurement boxes as indicated in the Clause 4.3.1 ICTAD/SCA/4/I. The internal dimensions of the boxes are 400 x 350 x 250mm (which is 0.035m ³ and corresponds to the volume of 1 bag of cement weighing 50 kg). The proportioning of sand shall be on the basis of its dry volume and in the case of damp sand allowance for bulkage shall be made as given in Appendix 4C of ICTAD specification.																
(c)	Water:Cement ratio shall not exceed 0.45. Based on this Water:Cement ratio, volume of water required (either weight or converted volume of water) shall be decided for a given cement content. Required water content shall then be added by measuring the volume from a calibrated measuring Jar.																
(d)	Cement shall be added in bag form.																

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
(e)	Slump of site mixed concrete before pouring shall be within 150mm±25mm range.		
	In order to achieve this slump without exceeding the 0.45 water:cement ratio, the use of a water reducing admixture (super plasticer) complying to BS EN 934-2 is permitted to be added to the concrete mix. Contractor shall ensure that the selected plasticer brand is compatible with the cement brand used for concreting.		
	Super plasticer shall be added to the water and properly mixed. Thereafter only shall the dry concrete be mixed with water containing super-plasticer. Under no circumstances shall the super-plasticer be directly added to the dry concrete. Dosage of super plasticer shall be determined based on manufacture's recommendation with the specific approval of Divisional Engineer.		
5	In order to ensure that the consistency of the mix is in par with the specified values given above, a trial mix shall be prepared at the site and prior approval to be obtained from the Divisional Engineer.		
6	After adding water to the dry concrete, it shall be used within 60 minutes.		
	The layers of concrete shall be so placed that the bottom layer does not fully set before the top layer is placed. Compaction shall be completed before the initial setting starts i.e. within 30 minutes of addition of water to the dry mixture. Re-tempering of concrete with water shall not be permitted.		
7	Contractor shall made available following equipment at site before starting to concrete.		
	(i) Cube moulds -6Nos		
	(ii) Mixer and Vibrator (in working condition)		
	(iii) Gauge Boxes (size as per ICTAD Specification for Building Works)		
	(iv) In case volume of water and admixture to be measured by measuring Jar, accuracy of 0.5ml to measure the volume be available in the Jar.		
	(v) An admixture (super-plasticer) compatible with the cement brand (Technical literature and dosage shall be submitted to the Divisional Engineer well in advance for approval)		
	(vi) Slump cone apparatus		

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
	(vii) Weighing scale		
	(viii) Covering material for curing		
	(ix) A Supervisor / Forman not below the rank of a NVQ Level 3 in “Construction” category		
	(x) Quality assurance sheet		
	(xi) A written request from the contractor for concreting with date and time, (Request shall forward to the Divisional Engineer at least 3 working days in advance)		
8	Immediately after removal of formwork, columns shall be continuously cured for 5 consecutive days.		
	Note: Divisional Engineer or Senior technical officer shall authorize the concreting only after receiving a method statement (in either language) from the contractor.		
	Payment for concreting shall be made upon submission of following.		
	(a) Concrete cube crushing strength test results; 28 day results shall be available to make full payment.		
	(b) Quality assurance report signed by the contractor’s technical officer or agent, Divisional Engineer’s technical officer who has witnessed the concreting along with senior technical officer in charge of the site.		
C 04	Volume Batched Grade 25 concrete prepared at site using mixer and vibrator in ground floor. Rate shall include the cost of curing continuously for 7 days.	Cube	51,450.00
C 05	Volume Batched Grade 25 concrete prepared at site using mixer and vibrator in first floor. Rate shall include the cost of curing continuously for 7 days.	Cube	52,995.00
C 06	Volume Batched Grade 25 concrete prepared at site using mixer and vibrator in second floor. Rate shall include the cost of curing continuously for 7 days.	Cube	54,025.00
C 07	Volume Batched Grade 30 concrete prepared at site using mixer and vibrator in ground floor. Rate shall include the cost of curing continuously for 7 days.	Cube	60,865.00
C 08	Volume Batched Grade 30 concrete prepared at site using mixer and vibrator in first floor. Rate shall include the cost of curing continuously for 7 days.	Cube	62,695.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018										
C 09	Volume Batched Grade 30 concrete prepared at site using mixer and vibrator in second floor. Rate shall include the cost of curing continuously for 7 days.	Cube	63,910.00										
C 10	Continuous curing of exposed reinforced concrete slabs with ponding water or covering with polythene sheets. In case of columns, , beams, staircase,Plinth beam & Ground beam etc , covering the exposed concrete surface with gunnies and spraying water and keeping wet for a period of 7 days after removal of shuttering. (Concreting after 7 days for item no. C 04 to C10)	Sq.ft/ Day	1.50										
	<u>Site produced concrete of Grade 20 - (machine mix or in case of small quantities manually mixed)</u>												
	The equivalent nominal mixes suggest for the Grade 20 concrete is given in table 4.4 for a 50kg cement bag and measuring boxes as given below. When concrete is prepared at the site with volume batching, instructions given in the ICTAD Publication SCA/4/I shall be followed.												
	Concrete shall be mixed by a mechanical mixer unless otherwise the Technical officer in-charge permits for hand mixing.In-case of hand mixing, mixture shall be prepared in a surface that will not allow loss of water.												
	<u>Table 4.4</u>												
	<table border="1"> <thead> <tr> <th rowspan="2">Specified mix by volume</th><th rowspan="2">Equivalent Concrete Grade</th><th colspan="2">Quantities per 50 kg bag of cement</th></tr> <tr> <th>Fine Aggregate</th><th>Coarse Aggregate</th></tr> </thead> <tbody> <tr> <td>1:2:4</td><td>20</td><td>0.07m³ 2boxes</td><td>0.14 m³ 4 boxes</td></tr> </tbody> </table>	Specified mix by volume	Equivalent Concrete Grade	Quantities per 50 kg bag of cement		Fine Aggregate	Coarse Aggregate	1:2:4	20	0.07m ³ 2boxes	0.14 m ³ 4 boxes		
Specified mix by volume	Equivalent Concrete Grade			Quantities per 50 kg bag of cement									
		Fine Aggregate	Coarse Aggregate										
1:2:4	20	0.07m ³ 2boxes	0.14 m ³ 4 boxes										
	In order to ensure that the consistency of the mix is in par with the Appendix 4D of ICTAD Specification, trial mix shall be prepared at the site and prior approval to be obtained from the Divisional Engineer.												
	(a) Cement should be compressive strength Class of 42.5 N.												
	(b) River sand/washed sand marketed by SLRDC / Manufactured sand shall satisfy with the grading criteria prescribed in Table 4.2 in the ICTAD Publication SCA/4/I.												

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
	(c) Coarse aggregate shall meet the grading criteria prescribed for the volume batching using the measurement boxes as indicated in the Clause 4.3.1 ICTAD/SCA/4/I. The internal dimensions of the boxes are 400 x 350 x 250mm (which is 0.035m ³ and corresponds to the volume of 1 bag of cement weighing 50 kg). The proportioning of sand shall be on the basis of its dry volume and in the case of damp sand allowance for bulkage shall be made as given in Appendix 4C of ICTAD specification.		
	(d) Water content shall be added by measuring the volume from a calibrated measuring Jar.		
	(e) Cement shall be added in bag form.		
	For more detail refer Chapter 4 of ICTAD specification for building work SCA/4/I.		
	Water Content (either weight or converted volume of water) shall be measured at site, keeping the maximum water/cement ratio at 0.45		
	Slump of site mixed concrete before pouring shall be within 150mm±25mm range.		
	In order to achieve this slump without exceeding the 0.45 water:cement ratio, the use of a water reducing admixture (super plasticer) complying to BS EN 934-2 is permitted to be added to the concrete mix. Contractor shall ensure that the selected plasticer brand is compatible with the cement brand used for concreting.		
	Super plasticer shall be added to the water and properly mixed. Thereafter only shall the dry concrete be mixed with water containing super-plasticer. Under no circumstances shall the super-plasticer be directly added to the dry concrete. Dosage of super plasticer shall be determined based on manufacture's recommendation with the specific approval of Divisional Engineer.		
	After adding water to the dry concrete, it shall be used within 60 minutes.		
	The layers of concrete shall be so placed that the bottom layer does not finally set before the top layer is placed. Compaction shall be completed before the initial setting starts i.e. within 30 minutes of addition of water to the dry mixture. Re-tempering of concrete with water shall not be permitted.		

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
C 11	Volume Batched Grade 20 concrete prepared at site manually for reinforced and unreinforced concrete floors laid on ground , lintols, copings, stiffeners and drains. Rate shall include the cost of curing continuously for 5 days.(Applicable for small quantities not exceeding 1.0 Cube for the entire project)	Cube	54,355.00
C 12	Volume Batched Grade 20 concrete prepared at site using mixer and vibrator for reinforced and unreinforced concrete floors laid on ground cast in situ lintols, copings, stiffeners and drains. Rate shall include the cost of curing continuously for 5 days.	Cube	49,340.00
C 13	Pre-cast lintols size 9" x 6" deep in Grade 20 concrete, reinforced with 2 nos of 10mm dia. tor steel bars and 6mm mild steel stirrups @ 6" c/c including necessary formwork in ground floor with curing continuously for 5 days.	L.ft.	545.00
C 14	Pre-cast lintols size 9" x 6" deep in Grade 20 concrete, reinforced with 2 nos of 10mm dia. tor steel bars and 6mm mild steel stirrups @ 6" c/c including necessary formwork in first floor with curing continuously for 5 days.	L.ft.	560.00
C 15	Pre-cast lintols size 9" x 6" deep in Grade 20 concrete, reinforced with 2 nos of 10mm dia. tor steel bars and 6mm mild steel stirrups @ 6" c/c including necessary formwork in second floor with curing continuously for 5 days.	L.ft.	570.00
C 16	Pre-cast lintols size 4 1/2" x 6" deep in Grade 20 concrete, reinforced with 2 nos of 10mm dia. tor steel bars and 6mm mild steel stirrups @ 6" c/c including necessary formwork in ground floor with curing continuously for 5 days.	L.ft.	430.00
C 17	Pre-cast lintols size 4 1/2" x 6" deep in Grade 20 concrete, reinforced with 2 nos of 10mm dia. tor steel bars and 6mm mild steel stirrups @ 6" c/c including necessary formwork in first floor with curing continuously for 5 days.	L.ft.	445.00
C 18	Pre-cast lintols size 4 1/2" x 6" deep in Grade 20 concrete, reinforced with 2 nos of 10mm dia. tor steel bars and 6mm mild steel stirrups @ 6" c/c including necessary formwork in second floor with curing continuously for 5 days.	L.ft.	450.00
C 19	Stiffener columns size 4" x 6" in Grade 20 concrete, reinforced with 2 nos of 10mm dia. Tor steel bars , including necessary form work with curing continuously for 5 days.	L.ft.	400.00
C 20	Stiffener columns size 4 1/2" x 6" in Grade 20 concrete, reinforced with 2 nos of 10mm dia. Tor steel bars , including necessary form work with curing continuously for 5 days.	L.ft.	425.00
C 21	Stiffener columns size 9" x 6" in Grade 20 concrete, reinforced with 2 nos of 10mm dia. Tor steel bars and 6mm mild steel stirrups @ 6" c/c , including necessary form work with curing continuously for 5 days.	L.ft.	570.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
C 22	Copings on the 4 1/2" thick walls, size of 6 1/2" x 3" in Grade 20 concrete, reinforced with 1 no of 10mm dia. Tor steel bar, including necessary form work & 1:3 cement plastering with curing continuously for 5 days , as per the Drawing No:- AR/DETAIL DRG/2010/01/10 & Sheet No. 02	L.ft.	400.00
C 23	Copings on the 9" thick walls, size of 11" x 6" approx. in Grade 20 concrete, reinforced with 2 nos of 10mm dia. Tor steel bars and 6mm mild steel @ 6" c/c, including necessary form work & 1:3 cement plastering with curing continuously for 5 days, as per the Drawing No:- AR/DETAIL DRG/2010/01/10 & Sheet No. 02	L.ft.	735.00
C 24	Cement concrete drains of internal size 9" wide and depth varies from 6" - 9" ,consist of 3" thick base and side walls in Grade 20 concrete including 1/2" thick 1:3 rendering without ramp including necessary formwork with curing continuously for 5 days..	L.ft.	610.00
C 25	Cement concrete drains of internal size 9" wide and depth varies from 6" - 9" ,consist of 3" thick base and side walls in Grade 20 concrete including 1/2" thick 1:3 rendering with 3" thick & 1'-6" width concrete ramp, including necessary formwork with curing continuously for 5 days..	L.ft.	1,085.00
C 26	Cement concrete drains of internal size 9" wide and depth varies from 6" - 9" ,consist of 3" thick base and side walls in Grade 20 concrete including 1/2" thick 1:3 rendering with 3" thick & 2'-6" width concrete ramp, including necessary formwork with curing continuously for 5 days.	L.ft.	1,325.00
C 27	Construction of concrete drain 300mm width x 350mm depth and varies up to 400mm. Consists of necessary excavation in hard earth, 75mm thick concrete base and walls in Grade 20 concrete, fair finish internal surface with size 450mm wide x 600mm long, 75mm thick Grade 20 removable cover slabs with side formwork. Drain and cover slab reinforced with tor steel 10mm at 150mm c/c both ways with curing continuously for 5 days.	L.ft.	2,035.00
C 28	Construction of concrete drain 300mm width x 350mm depth and varies up to 400mm. Consists of necessary excavation in hard earth, 75mm thick concrete base and walls in Grade 20 concrete, fair finish internal surface without cover slab. Drain reinforced with tor steel 10mm at 150mm c/c both ways with curing continuously for 5 days..	L.ft.	1,500.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
	<u>READY MIX CONCRETE</u>		
	<u>Requirement for Ready mixed concrete</u>		
	1. Minimum cement content shall be 300 kg/m³		
	2. Nominal maximum size of aggregate shall be 20mm.		
	3. Slump shall be 150mm ± 25mm		
	Maximum temperature 30⁰C		
	4. Maximum free water / cement ratio to be 0.5		
	5. Coarse and Fine aggregate used shall confirm to BS 882 latest version		
	6. Concrete grade shall be as specified.		
	7. Concrete mix design shall be approved by the Divisional Engineer or Divisional Engineer's nominated Senior Technical officer.		
	8. The Ready mix supplier's plant should have been calibrated in the recent past.		
	9. Testing		
	Collection of samples for testing shall be at the point of placing. One sample per 5m³, one sample shall mean 3 test cubes		
C 29	Ready mix concrete of grade 20(20 N/mm ²) confirming to SLS 1144-1997, transport 20km from batching plant.	m ³	15,090.00
C 30	Ready mix concrete of grade 25(25 N/mm ²) confirming to SLS 1144-1997, transport 20km from batching plant.	m ³	15,980.00
C 31	Ready mix concrete of grade 30(30 N/mm ²) confirming to SLS 1144-1997, transport 20km from batching plant.	m ³	16,590.00
C 32	Transport charges per Km per truck for load for over and above 20 km.	Km	40.00
C 33	Placing , levelling & compacting the pumpable concrete.	m ³	225.00
C 34	Pumping charge for quantities up to 30 m ³ by pump car.	Item	25,110.00
C 35	For more than 30 m ³ additional pumping charges. (Rate for every m ³ over and above 30 m ³)	m ³	837.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
C 36	Continuous curing of exposed reinforced concrete slabs with ponding water or covering with polythene sheets. In case of columns, , beams, staircase, Plinth beam & Ground beam etc , covering the exposed concrete surface with gunnies and spraying water and keeping wet for a period of 14 days .	Sq.ft/ Day	1.50
C 37	Casting of 6" x 6" x 6" concrete cubes on a steel mould, curing for 7 days and testing for compressive strength at an approved laboratory (rate includes transport of cubes from site to laboratory).	Nr.	1,540.00
	<u>D - FORM WORK</u>		
	<u>Note:</u>		
1	Shuttering boxes for columns of over 5'-0" height are not permitted under any circumstances for the pouring of manually produced (site mix) concrete.		
	If a contractor made an appeal to use shuttering boxes (Customary steel boxes or plywood boxes) of over 5'-0" height, then subject to the fulfillment of following conditions Divisional Engineer may personally approve for casting a column shaft up to a maximum height of 4'-0" at a time.		
	(a) The concrete mix designed based on material available at the site for a W/C ratio of 0.45 and slump of 150mm \pm 25mm be able to Pour without segregation.		
	(b) The method statement of pouring concrete in to the column shaft signed by a competent technical person from the contractor's side.		
	In case of termite pipe, it shall have a diameter of not less than 4" with a funnel.		
	How the funnel and pipe is lowered and kept in position without disturbing the formwork shall be indicated in the method statement.		
	(c) A Method statement for compaction shall be submitted.		
	Divisional Engineer, upon satisfaction himself/herself to the arrangement of placing concrete and having paying special attention to the method of compaction by a person standing at a height and lowering his head and doing compaction in a restricted cross-section with a termite pipe inside; may be allowed to proceed with a log note.		
D 01	Shuttering for sides of foundation with 1" thick rubber planking including dismantling	Sqr.	5,512.00
D 02	Shuttering for sides of plinth beams, ground beams on top of foundation including dismantling in 15mm thick plywood	Sqr.	12,855.00
D 03	Shuttering for pantry slab including dismantling in 12mm thick Plywood board or steel boarding supported by timber props.	Sqr.	9,265.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
D 04	Shuttering for floor slab including dismantling in 15mm thick Plywood board or steel boarding up to 11'-0" soffit height supported by props.	Sqr.	17,000.00
D 05	Shuttering for floor Beams including dismantling in 15mm thick plywood board up to 12'-0" soffit height supported by props.	Sqr.	22,840.00
D 06	Shuttering for floor slab including dismantling in 15mm thick Plywood board or steel boarding support by steel jack from 11'-0" to 13'-0".	Sqr.	19,285.00
D 07	Shuttering for 9" x 12", 9" x 15", 9" x 18", 9" x 21", 12" x 12", 12" x 15", 12" x 18" & 21" x 21" columns including dismantling in 15mm thick Plywood board & side supports with props.	Sqr.	18,115.00
D 08	Item Deleted	Sqr.	
	The rate given for item D 09 applicable for pre-fabricated steel shuttering box halves		
D 09	Shuttering for 9" x 9" Columns including dismantling using pre-fabricated steel shutter halves.	Sqr.	15,530.00
D 10	Shuttering for sides of drains with 12mm thick plywood boards.	Sqr.	5,280.00
	Note:		
	The rates given in Items D11 to D13 herein are applicable for Rubber planks. The rubber planks are allowed only for minor works and should be used with the written approval of the Divisional Engineer.		
D 11	Shuttering for Lintols including dismantling.	Sqr.	7,935.00
D 12	Shuttering for stiffener columns between wall panels in 9" walls, 4 1/2" walls and in boundary walls.	Sqr.	5,285.00
D 13	Shuttering for R.C.C. copings in top of balcony, stair, boundary walls and pre-cast lintol sides, cast in-situ.	Sqr.	4,577.00
D 14	Shuttering for sides of concrete manholes, concrete water tank & concrete pump house including dismantling in 12mm thick Plywood board supported by timber props.	Sqr	16,800.00
D 15	Shuttering for sides of Pre-Cast Concrete cover slabs (Man Hole Covers, Septic tank & Soakage Pit covers, Water tank covers and Other Pre-cast Concrete Items) with 1" thick rubber planking including dismantling	Sqr	6,050.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
	<u>E - REINFORCEMENT</u>		
E 01	Mild steel reinforcement to slabs, beams, lintols, columns, footings etc.. bent to shape, laid in position and tied with 16 B.W.G. Aneal binding wire in Ground floor (Lap should be measured when full bar are used or else as per the drawings).	Kg	233.00
E 02	Mild steel reinforcement to slabs, beams, lintols, columns, footings etc.. bent to shape, laid in position and tied with 16 B.W.G. Aneal binding wire in first floor (Lap should be measured when full bar are used or else as per the drawings).	Kg	240.00
E 03	Mild steel reinforcement to slabs, beams, lintols, columns, footings etc.. bent to shape, laid in position and tied with 16 B.W.G. Aneal binding wire in second floor (Lap should be measured when full bar are used or else as per the drawings).	Kg	245.00
E 04	Tor steel reinforcement to slabs, beams, lintols, columns, footings etc.. bent to shape, laid in position and tied with 16 B.W.G. Aneal binding wire in Ground floor (Lap should be measured when full bar are used or else as per the drawings).	Kg	233.00
E 05	Tor steel reinforcement to slabs, beams, lintols, columns, footings etc.. bent to shape, laid in position and tied with 16 B.W.G. Aneal binding wire in first floor. (Lap should be measured when full bar are used or else as per the drawings).	Kg	240.00
E 06	Tor steel reinforcement to slabs, beams, lintols, columns, footings etc.. bent to shape, laid in position and tied with 16 B.W.G. Aneal binding wire in second floor. (Lap should be measured when full bar are used or else as per the drawings).	Kg	245.00
E 07	Rate for testing of Tor-steel specimen of 1m length for mechanical properties at an approved laboratory.	Per Sample	3,800.00
E 08	Application of two coats of Corrosion inhibitor to exposed reinforcements including preparing surfaces.(12mm dia. to 20mm dia.)	L.ft.	45.00
	<u>F - BRICK MASONRY</u>		
F 01	Brick work in cement and sand in 1:8 in foundation up to D.P.C. level.	Cube	52,890.00
F 02	Brick work in cement and sand 1:8 in 9" thick walls of ground floor.	Cube	53,070.00
F 03	Brick work in cement and sand 1:8 in 9" thick walls of 1st floor level.	Cube	55,725.00
F 04	Brick work in cement and sand 1:8 in 9" thick walls of 2nd floor level.	Cube	56,785.00
F 05	Brick work in cement and sand 1:5 in 4 1/2" thick wallsof ground floor.	Sqr.	22,228.00
F 06	Brick work in cement and sand 1:5 in 4 1/2" thick walls of 1st floor	Sqr.	23,340.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
F 07	Brick work in cement and sand 1:5 in 4 1/2" thick walls of 2nd floor	Sqr.	23,785.00
F 08	Brick drain internal size 9" x 9"(average depth) , including excavation, back filling , 3" thick plain concrete 1:3:6(1") base, 4 1/2" thick Brick side walls in cement and sand mortar 1:5 , rendering 1/2" thick cement and sand 1:3 and finish smooth with cement putty.	L.ft.	850.00
F 09	Steps 1' - 1 1/2" in brick in cement and sand 1:5 finished with 1/2" thick rendering in cement and sand 1:3 and smoothened with cement slurry including 6" high foundation.	L.ft.	566.00
F 10	Brick piers in cement and sand 1:5 in ground floor.	Cube	56,880.00
	<u>G - BLOCK MASONRY</u>		
G 01	8" thick cement sand Cellular block wall (blocks confirming to S.L.S. 855 and subject to the approval in sample blocks) in cement and sand mortar 1:5 in ground floor.	Sqr.	27,905.00
G 02	6" thick cement sand Cellular block wall (blocks confirming to S.L.S. 855 and subject to the approval of sample blocks) in cement and sand mortar 1:5 in ground floor.	Sqr.	22,368.00
G 03	4" thick cement sand Cellular block wall (blocks confirming to S.L.S.855 and subject to the approval of sample blocks) in cement and sand mortar 1:5 in ground floor.	Sqr.	16,325.00
G 04	Supply and fixing 1'-0" x 1'-0" x 4" thick Concrete grill on wall.	Sq.ft.	710.00
G 05	Supply and fixing 1'-0" x 1'-0" x 2" thick Cement grill on wall.	Sq.ft.	270.00
G 06	Supply and fixing glass blocks size 8" x 8"	Sq.ft.	1,425.00
	<u>H - RUBBLE MASONRY</u>		
H 01	Random rubble (6"-9") masonry in cement mortar 1:5 in wall foundation and retaining walls.	Cube	39,050.00
	<u>J - FLOORING</u>		
J 01	3/4" thick D.P.C. in cement sand 1:3 finished with 2 coats of D.P.C. tar and blinded with sand.	Sqr.	13,595.00
J 02	Gauge 750 polythene damp proof membrane with 6" laps laid under floors.	Sqr.	415.00
J 03	Rendering 1/2" thick in cement and sand 1:3 in R.C.C. floors and paved floors finished smooth with cement slurry and colour pigment.	Sqr.	8,380.00
J 04	Rendering 1/2" thick in cement and sand 1:3 in R.C.C. floors and paved floors finished smooth with cement slurry.	Sqr.	7,810.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
J 05	1/2" thick Rendering to the top surface of the sunshade with cement and sand 1:3 finished smooth to a slope of 1:80 and treated with two coats of "Aqua Tuff " by M/s Lankem or approved equivalent water proofing agent.	Sqr.	10,260.00
J 06	Skirting 4" x 1/2" thick in cement and sand 1:3 projected or flush to walls finished with cement slurry floating including forming groove in ground floor.	L.ft.	129.00
J 07	Skirting 4" x 1/2" thick in cement and sand 1:3 projected or flush to walls finished with cement slurry floating including forming groove in first floor.	L.ft.	130.00
J 08	Skirting 4" x 1/2" thick in cement and sand 1:3 projected or flush to walls finished with cement slurry floating including forming groove in second floor.	L.ft.	132.00
J 09	Skirting 4" x 1/2" thick in cement and sand 1:3 projected or flush to walls finished with cement slurry floating & Colour pigment including forming groove in ground floor.	L.ft.	131.00
J 10	Skirting 4" x 1/2" thick in cement and sand 1:3 projected or flush to walls finished with cement slurry floating & Colour pigment including forming groove in First floor.	L.ft.	133.00
J 11	Skirting 4" x 1/2" thick in cement and sand 1:3 projected or flush to walls finished with cement slurry floating & Colour pigment including forming groove in Second floor.	L.ft.	135.00
J 12	3" thick floor concrete in 1:2:4(3/4") and 1/2" thick rendering in cement sand 1:3 finished smooth with cement slurry without colour pigment and expansion joints filled with cement and sand.	Sqr.	24,655.00
J 13	Brick work in cement 1:5 wearing & throating on 4 1/2" brick wall including 1/2" thick 1:3 cement rendering and finished smooth with cement slurry.	L.ft.	433.00
J 14	Brick work in cement 1:5 wearing & throating on 9" brick wall including 1/2" thick 1:3 cement rendering and finished smooth with cement slurry.	L.ft.	575.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
	<u>Water Proofing</u>		
	The rates for Items J 15 to J 18 are strictly applicable, subject to the fulfillment of the following conditions.		
1	The water proofing material shall conform to relevant British, Euro or ASTM specifications		
2	Recommended Distributors/Agents who are marketing water proofing material/product are		
	1. M/s Finco Ltd.		
	2. M/s HE Engineering		
	3. M/s Ranki International		
	4. M/s Solico Engineering		
	5. M/s Chandrarathna Decorators		
3	The contractor shall submit;		
	(a) A written certificate stating that all material and workmanship are in conformity with the specifications and the manufactures requirements.		
	(b) The contractor shall jointly with manufacture/supplier of the waterproofing materials shall furnish a warranty to the Employer valid for a period of 10 years after handing over of the work against dampness and/or moisture penetration through treated surfaces due to defective materials and/or workmanship		
	payments for items J15 to J18 shall be made on receipt of above certificate		
	<u>Type - 1 - Internal wet areas without exposure to sunlight Using Barralastic or approved equivalent.)</u>		
	Application of cementitious water proofing for internal wet areas such as toilet floors and walls where the surfaces are not directly exposed to sunlight and weathering. (toilet walls and toilet slab, etc.)		
J 15	Water Proofing the inner surface of walls and floor slab of toilets and wet areas rate shall include for cleaning the substrate and all other work as per manufacturer's specifications with 10 years warranty on application and shall include for ponding test for a 300mm water height kept for a period of 48 hours for horizontal surfaces.	Sq.ft.	310.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
	<u>Type - 2 - Areas exposed to sunlight (Balconies, Sun-Shades, Concrete Gutters) (Using thoroseal or approved equivalent.)</u>		
J 16	Application of elastomeric water proofing material capable to withstand temperature variation for wet areas exposed to sunlight and weathering. (balconies, sun-shades, concrete gutters.) rate shall include for cleaning the substrate and all other work as per manufacturer's specifications with 10 years warranty on application and shall include for ponding test for a 300mm water height kept for a period of 48 hours for horizontal surfaces.	Sq.ft.	215.00
	<u>Type - 3 - Water tanks,Sumps, Swimming pools (water proofing material suitable for portable water storage) (Using " XYPEX " modification & " XYPEX " modification or approved equivalent.)</u>		
J 17	Application of crystalline type waterproofing material for under ground sumps, water tanks, (water proofing material recommended for portable water storage tanks) products marketed/installed by a specialist contractor registered at ICTAD.	Sq.ft.	235.00
	<u>Type - 4 - Application of membrane type water proofing material for Large flat roofs)</u>		
J 18	On large flat roofs laying of Topseal 3 mm thick, Torch-on membrane or any other equivalent product marketed/installed by a specialist contractor registered at ICTAD under water proofing category including 1 : 3 cement,sand protective screed laid to slope. Rate shall include the formation of edges, torch welding and fixing metal strip on vertical walls at termination edges.	Sq.ft.	370.00
	The rates for items J15 and J16 include the cost of surface preparation, but does not include the cost of protective masonry screed. Appropriate B.S.R. item rate shall be used for protective layer. The approving authority for products shall be the Deputy Chief Secretary (Engineering)/ Director (Building)/ Director (Engineering) or Divisional Engineer.		
	<u>K - PLASTERING</u>		
	<u>Note:</u>		
	1. The rate for plastering items includes the cost of "Febmix"as a workability enhancer.		
	2. For coarse textured plaster (identified as "semi-rough") all the sand should pass through 4.0mm sieve.		
K 01	5/8" thick plastering to plinth wall in cement sand 1:3 including finishing with cement slurry floating.	Sqr.	8,235.00
K02	5/8" thick plastering to plinth wall in cement sand 1:3 including finishing with cement slurry floating with colour pigment..	Sqr.	8,865.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
K 03	Plastering 5/8" thick to walls in cement and sand 1:5 finished semi-rough.	Sqr.	8,210.00
K 04	Plastering 5/8" thick to reveals width not exceeding 6" in cement and sand 1:5 finished semi-rough .	L.ft.	226.00
K 05	Plastering 5/8" thick to reveals width not exceeding 6" in cement and sand 1:5 finished semi-rough in first floor.	L.ft.	228.00
K 06	Plastering 5/8" thick to reveals width not exceeding 6" in cement and sand 1:5 finished semi-rough in second floor.	L.ft.	230.00
K 07	Applying two coats of skim coat (Not exceeding 3 mm thick) to walls inc. preparation surface..	Sqr.	2,895.00
K 08	Plastering 5/8" thick to walls in cement and sand 1:5 finished smooth with skim coat.	Sqr.	10,695.00
K 09	Plastering 5/8" thick to reveals width not exceeding 6" in cement and sand 1:5 finished smooth with skim coat in ground floor.	L.ft.	261.00
K 10	Plastering 5/8" thick to reveals width not exceeding 6" in cement and sand 1:5 finished smooth with skim coat in first floor.	L.ft.	264.00
K 11	Plastering 5/8" thick to reveals width not exceeding 6" in cement and sand 1:5 finished smooth with skim coat in second floor.	L.ft.	267.00
K 12	Plastering 3/8" thick to soffit of slab, sunshade, sides and soffit of beams, stair cases and sides of columns in cement & sand 1:3 finished smooth & skim coat.paid separately.	Sqr.	7,665.00
K 13	Plastering 3/8" thick to soffit of slab, sunshade, sides and soffit of beams, stair cases and sides of columns in cement & sand 1:3 finished semi rough with wooden float.	Sqr.	11,895.00
K 14	Applying two coats of skim coat (Not exceeding 3 mm thick) to soffit of slab, sunshade & stair cases Inc. preparation surface..	Sqr.	5,320.00
K 15	Applying two coats of skim coat (Not exceeding 3 mm thick) to sides and soffit of beams and sides of columns Inc. preparation surface..	Sqr.	7,790.00
K 16	Forming drip for sunshade edge cement & sand 1: 3 finished semi rough in ground floor.	L.ft.	187.00
K 17	Forming drip for sunshade edge cement & sand 1: 3 finished semi rough in first floor.	L.ft.	188.00
K 18	Forming drip for sunshade edge cement & sand 1: 3 finished semi rough in second floor.	L.ft.	190.00
K 19	Plastering 3/4" thick to black board in cement & sand 1:3 finished semi rough and Rendering cement floating coat using black cement finished smooth with carborandum stone. Including preparation of border.	Sqr.	17,095.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
K 20	Plaster bands 6" x 1/2" in cement & sand 1:3 finished semi rough, extra over the plastering in ground floor as per the Drawing No:- AR/DETAIL DRG/2010/01/10 & Sheet No. 01	L.ft.	277.00
K 21	Plaster bands 6" x 1/2" in cement & sand 1:3 finished semi rough, extra over the plastering in first floor as per the Drawing No:- AR/DETAIL DRG/2010/01/10 & Sheet No. 01	L.ft.	280.00
K 22	Plaster bands 6" x 1/2" in cement & sand 1:3 finished semi rough, extra over the plastering in second floor as per the Drawing No:- AR/DETAIL DRG/2010/01/10 & Sheet No. 01	L.ft.	283.00
K 23	Plaster bands 9" x 1/2" in cement & sand 1:3 finished semi rough, extra over the plastering in ground floor as per the Drawing No:- AR/DETAIL DRG/2010/01/10 & Sheet No. 01	L.ft.	332.00
K 24	Plaster bands 9" x 1/2" in cement & sand 1:3 finished semi rough, extra over the plastering in first floor as per the Drawing No:- AR/DETAIL DRG/2010/01/10 & Sheet No. 01	L.ft.	335.00
K 25	Plaster bands 9" x 1/2" in cement & sand 1:3 finished semi rough, extra over the plastering in second floor as per the Drawing No:- AR/DETAIL DRG/2010/01/10 & Sheet No. 01	L.ft.	338.00
K 26	Roof plaster band in middle & edge 4" wide in cement, sand mortar 1:5 and coloured to match the tiles.	L.ft.	165.00
	<u>L - TILING</u>		
	<u>Note:</u>		
	Floor Tiles should comply to SLS 1181:2013 "specification for ceramic tiles" and shall comply to relevant abrasion resistant class.		
	Copy of the tile purchase bill should be produced at the time of payment.		
	For Item L01- L04 Should be tile range manufactured by Lanka Wall Tile or approved equivalent.		
	<u>Wall Tiling (Ceramic)</u>		
L 01	Glazed Ceramic wall tiling of size 8" x 12" approved colour, supplying and fixing to walls on a 1:3 cement sand mortar layer, and pointed with tile grout to match the tile. (Rate does not include the 1:3 cement sand mortar layer and is separately measured under item L02) (Prime Cost of tile Rs.85.00)	Sqr.	34,905.00
L 02	Glazed Ceramic wall tiling of size 12" x 12" approved colour, supplying and fixing to walls on a 1:3 cement sand mortar layer, and pointed with tile grout to match the tile. (Rate does not include the 1:3 cement sand mortar layer and is separately measured under item L02) (Prime Cost of tile Rs.139.00)	Sqr.	37,190.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
L 03	Glazed Ceramic wall tiling of size 12" x 18" approved colour, supplying and fixing to walls on a 1:3 cement sand mortar layer, and pointed with tile grout to match the tile. (Rate does not include the 1:3 cement sand mortar layer and is separately measured under item L02) (Prime Cost of tile Rs.223.00)	Sqr.	37,670.00
L 04	Glazed Ceramic wall tiling of size 24" x 12" approved colour, supplying and fixing to walls on a 1:3 cement sand mortar layer, and pointed with tile grout to match the tile. (Rate does not include the 1:3 cement sand mortar layer and is separately measured under item L02) (Prime Cost of tile Rs.360.00)	Sqr.	41,525.00
L 05	Cement and sand 1:3 screed of 1/2" thick backing to receive wall tiles.	Sqr.	7,750.00
	<u>Floor Tiling (Porcelain)</u>		
	<u>Note :</u>		
(a)	For Item No. L06 to L14 Shall be Homogenous, porcelain floor tiles of industrial grade floor tile range manufactured by Rocell or approved equivalent.		
(b)	Rates include the cost of 1:3 cement:sand motar leveling bed.		
L 06	Homogeneous porcelain semi - glazed floor tile 12" x 12" paving on 1:3 cement & sand bedding and pointed with tile grout to match the tile. (Prime Cost of tile Rs.170.00)	Sqr	38,905.00
L 07	Homogeneous porcelain semi - glazed floor tile 16" x 16" paving on 1:3 cement & sand bedding and pointed with tile grout to match the tile. (Prime Cost of tile Rs.308.00)	Sqr.	39,605.00
L 08	Homogeneous porcelain semi - glazed floor tile 24" x 24" paving on 1:3 cement & sand bedding and pointed with tile grout to match the tile. (Prime Cost of tile Rs.800.00)	Sqr.	42,685.00
L 09	Homogeneous porcelain mat floor tile 12" x 12" paving on 1:3 cement & sand bedding and pointed with tile grout to match the tile. (Prime Cost of tile Rs.170.00) - for toilet areas	Sqr	29,695.00
L 10	Homogeneous porcelain mat floor tile 16" x 16" paving on 1:3 cement & sand bedding and pointed with tile grout to match the tile. (Prime Cost of tile Rs.300.00)	Sqr.	39,033.00
L 11	Homogeneous porcelain mat floor tile 24" x 24" paving on 1:3 cement & sand bedding and pointed with tile grout to match the tile. (Prime Cost of tile Rs.890.00)	Sqr.	45,525.00
L 12	Supply and laying of 4" high skirting including tile grout to match the tile of tiling confirming to items L 06 to L 11	L.ft.	140.00
L 13	Supply and laying of 4" high skirting including tile grout to match the tile for staircases.	L.ft.	185.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
L 14	Supplying and laying homogeneous porcelain tiles at staircase treads including nosing type paving on 1:3 cement & sand bedding and pointed with tile grout to match the tile.	Sqr.	55,820.00
	<u>Granite</u>		
	For the Granite, tiles specified sizes, colour and details of paving decided by Architect and sample should be approved by the Architect before the construction.		
	The rate is applicable for Granite manufactured by "Star Granite " or approved equivalent.		
	Granite should be without any defects.		
L 15	Polished Granite size 1'-0" x 1'-0" x 3/4" thick absolutely black for vanity top, laid on 1/2" thick cement sand 1:3 screed level off using cement slurry and 1mm joints to be absolutely in line and flush and grout. (Prime Cost of tile Rs.1800.00)	Sqr.	244,290.00
L 16	Polished Granite floor slabs of size 1'-0" x 1'-0" x 3/4" thick absolutely black, laid on 1/2" thick cement sand 1:3 screed level off using cement slurry and 1mm joints to be absolutely in line and flush and grout. (Prime Cost of tile Rs.1800.00)	Sqr.	244,290.00
L 17	Granite floor slabs of size 1'-0" x 1'-0" x 3/4" thick rough finish, laid on 1/2" thick cement sand 1:3 screed level off using cement slurry and 1mm joints to be absolutely in line and flush and grout. (Prime Cost of tile Rs.600.00)	Sqr.	93,090.00
L 18	Granite floor slabs of size 1'-0" x 1'-0" x 3/4" thick gloss finish, laid on 1/2" thick cement sand 1:3 screed level off using cement slurry and 1mm joints to be absolutely in line and flush and grout. (Prime Cost of tile Rs.600.00)	Sqr.	93,090.00
L 19	Granite floor slabs of size 2'-0" x 1'-0" x 3/4" thick gloss finish, laid on 1/2" thick cement sand 1:3 screed level off using cement slurry and 1mm joints to be absolutely in line and flush and grout. (Prime Cost of tile Rs.1200.00)	Sqr.	93,090.00
	<u>Designer Floor Tile range</u>		
L 20	Porcelain polished design floor tile 24" x 24" paving on 1:3 cement & sand bedding and pointed with tile grout to match the tile. (Prime Cost of tile Rs.1391.00)	Sqr.	61,305.00
L 21	Ceramic design floor tile 16" x 16" paving on 1:3 cement & sand bedding and pointed with tile grout to match the tile. (Prime Cost of tile Rs.259.00)	Sqr.	36,090.00
	<u>M - COLOUR WASHING, PAINTING & POLISHING</u>		
M 01	Painting walls with one coat of alkali resistant wall primer including preparing surface.	Sqr.	1,872.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
M 02	Painting walls with one coat of emulsion paint including preparing surface.	Sqr.	1,695.00
M 03	Painting walls with two coats of emulsion paint including preparing surface.	Sqr.	3,375.00
M 04	Painting soffit with one coat of emulsion paint including preparing surface..	Sqr.	2,035.00
M 05	Painting soffit with two coats of emulsion paint including preparing surface.	Sqr.	4,055.00
M 06	Painting walls with one coat of weathershield paint including preparing surface.	Sqr.	2,200.00
M 07	Painting walls with two coats of weathershield paint including preparing surface.	Sqr.	3,790.00
M 08	Painting walls & soffits with one coat of crack binder primer.	Sqr.	1,615.00
M 09	Painting walls with one coat of enamel paint including preparing surface.	Sqr.	1,945.00
M 10	Painting walls with two coats of enamel paint including preparing surface.	Sqr.	4,365.00
M 11	On existing wall surfaces where emulsion paint has peed-off, application of plaster coatings of thickness not less than 2mm using "Joint compound powder ", or approved equivalent to walls, slab, beam, column facings.Rate shall include for sand papering and surface preparation.(Applying only for the internal surfaces.)	Sqr.	7,050.00
M 12	Painting soffit of Slab, Side of Beams /Asbestos ceiling with one coat of primer and one coat of emulsion paint including preparing surface.	Sqr.	3,260.00
M 13	Painting black boards with two coats of blackboard paint including preparing surface.	Sqr.	4,365.00
M 14	Preparing and painting old wood work with one coat of enamel paint.	Sqr.	2,540.00
M 15	Preparing and painting old wood work with two coats of enamel paint.	Sqr.	3,260.00
M 16	Preparing and painting new wood work with primer and two coats enamel paint.	Sqr.	5,003.00
M 17	Preparing and application of water based stain and two coats of water based sealant to new wood work. Rate shall include for preparing the surface.	Sqr.	5,970.00
M 18	Varnishing two coats with polyurethane varnish after sand papering and application of sealer coat	Sqr.	4,490.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
M 19	Spray Painting for the wood work as per specified in SCA/4/1 clause 14.9 (f).	Sqr.	4,870.00
M 20	Wax polishing to timber in panels and floors.	Sqr.	1,555.00
M 21	Applying one coat of approved type floor polish including smoothing.	Sqr.	1,690.00
M 22	Painting floors with one coat of quick drying floor paint including washing and cleaning surfaces.	Sqr.	3,015.00
M 23	Painting steel work (window grills) with one coat of anti-corrosive primer and one coat enamel paint including removing corroded scale and wire brushing.	Sqr.	2,760.00
M 24	Painting steel work (window grills) with two coats of enamel paint and one coat anti-corrosive primer including removing corroded scale and wire brushing.	Sqr.	4,585.00
M 25	Painting steel work (in roof trusses) with two coats of Zinc phosphate primer including removing corroded scale and wire brushing.	Sqr.	4,075.00
M 26	Painting steel work with One coat of enamel paint with mineral turpentine or thinner including removing corroded scale and wire brushing.	Sqr.	1,745.00
M 27	Painting steel work with One coat of anti-corrosive primer with mineral turpentine or thinner including removing corroded scale and wire brushing.	Sqr.	1,595.00
M 28	Apply two coats of Anti-Carbonation agent with curing membrane. (Application - After removing suttering apply curing agent and after 7 days of curing apply anti-carbonation agent)	Sqr.	5,064.00
M 29	Labour rate for two coats of Emulsion Painting walls including scaffolding (Paint & Brushes supplied by the client)	Sqr.	2,040.00
M 30	Labour rate for single coat of Emulsion Painting walls including scaffolding (Paint & Brushes supplied by the client)	Sqr.	1,360.00
M 31	Labour rate for two coats of enamel painting (Paint & Brushes supplied by the client)	Sqr.	3,060.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
	<u>N - DOORS & WINDOWS</u>		
	<u>Timber :</u>		
1	Refer preamble note for approved species. Finished door sash with Approved class I timber size of less than 1" thicknesses not allowed. Glass thickness to be 5mm.		
2	Following Brass or stainless steel furniture are recommended for timber Doors/ Windows/ Fan lights. Rate with out following heavy duty brass furniture.		
(a)	Doors :- 3 no. 4"x 3" Solid brass hinges		
(b)	Doors :- 2 no. 6" Solid brass barrel bolts		
(c)	Windows of 4'-0" height :- 2 no. 4"x 2" Solid brass hinges		
(d)	Windows above 4'-0" height :- 3 no. 4"x 2" Solid brass hinges		
(e)	Windows :- 1 no. 2" Solid brass Brass ring		
(f)	Windows :- 1 no. 10" Solid brass Casement Stay		
(g)	Windows :- 1 no. Solid brass Casement Fastener		
	<u>Doors</u>		
N 01	Door flush paneled 1 1/8" thick single sash hung on 3 3/4" x 2 3/4" frame. Rate without brass furniture, painting and lock.	Sq.ft.	1,665.00
N 02	Door glazed and paneled 1 1/8" thick single sash hung on 3 3/4" x 2 3/4" frame. Rate without brass furniture, painting and lock.	Sq.ft.	1,670.00
N 03	Door flush paneled 1" thick single sash hung on 3 3/4" x 2 3/4" frame. Rate without brass furniture, painting and lock.	Sq.ft.	1,740.00
N 04	Door glazed and paneled 1" thick single sash hung with 3 3/4" x 2 3/4" frame . Rate without brass furniture, painting and lock.	Sq.ft.	1,665.00
N 05	Door 30mm thick plywood ordinary sash single hung on 3 3/4" x 2 3/4" frame. Rate without brass furniture, painting and lock.	Sq.ft.	1,010.00
N 06	Door 30mm thick plywood (marine) sash single hung on 3 3/4" x 2 3/4" frame. Rate without brass furniture, painting and lock.	Sq.ft.	895.00
N 07	Door or window glazed and/or paneled 1 1/8" thick double sash hung on 3 3/4" x 2 3/4" frame. Rate without brass furniture, painting and lock.	Sq.ft.	2,695.00
N 08	Door/Window ledged, braced & battened with 3 3/4" x 2 3/4" frames and 7/8" thick sash made out of GINISAPU. Rate without brass furniture, painting and lock.	Sq.ft.	1,710.00
N 09	Supply & fixing 1 1/8" thick flush paneled door sash only. Rate without brass furniture's, door lock and painting.	Sq.ft.	1,382.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
N 10	Supply & fixing 1" thick flush paneled door sash only. Rate without brass furniture's, door lock and painting.	Sq.ft.	1,335.00
N 11	Supply & fixing 1 1/8" thick glazed & paneled door sash only. Rate without brass furniture's, door lock and painting.	Sq.ft.	1,432.00
N 12	Supply & fixing 1" thick glazed & paneled door sash only. Rate without brass furniture's, door lock and painting.	Sq.ft.	1,423.00
N 13	Supply & fixing 30mm thick plywood door sash only. Rate without brass furniture's, door lock and painting.	Sq.ft.	540.00
N 14	Door frame 3 3/4" x 2 3/4" in approved timber supplying & fixing in position.	Sq.ft.	850.00
	<u>Windows</u>		
N 15	Window glazed 1 1/8" sash and 3 3/4" x 2 3/4" frame. Rate without brass furniture, painting.	Sq.ft.	1,735.00
N 16	Window glazed 1" sash and 3 3/4" x 2 3/4" frame. Rate without brass furniture, painting.	Sq.ft.	1,730.00
N 17	Timber slats with 3 3/4" x 1 3/4" frame , 1" x 2 1/2" vertical slats at 2 1/2" centers. Painting measured separately.	Sq.ft.	1,102.00
N 18	Supply & fixing 1 1/8" thick glazed window sash only. Rate without brass furniture's and painting.	Sq.ft.	1,348.00
N 19	Supply & fixing 1" thick glazed window sash only. Rate without brass furniture's and painting.	Sq.ft.	1,340.00
N 20	Window frame 3 3/4" x 2 3/4" in approved timber supplying & fixing in position.	Sq.ft.	990.00
	<u>P - BRASS FOUNDER</u>		
	<u>Note:</u>		
	All Iron mongary shall be heavy duty and samples should be approved by the D.E. Prior to installation.		
1	In view of the variety of door locks available in the market, it has become necessary to prescribe the exact quality requirements in terms of performance and durability aspects. The "Union" brand and respective model numbers have been chosen as a bench mark to establish the said requirements.		
2	The brand name and model number appearing in the respective BSR items are purely meant to describe the performance standard of the said fitting/item and does not imply in any manner that only the "Union" brand is recommended or considered to be restricted to the "Union" brand.		

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
3	Any other make/brand that has equivalent performance characteristics are considered as equivalent provided such fittings met with following criteria.		
(a)	has an authorized local agent in Sri Lanka		
(b)	The local agent has been in the trade of the offered make for not less than 5 years.		
(c)	The fittings are manufactured in conformity to BS, JIS, A.S.T.M., A.S. or S.L.S. standards.		
(d)	The dimensions are/and performance characteristics are in par with the stated model.		
4	The brands that may be considered as equivalent are "Miva" of Japan "Whitco" of Australian make or "Dorma" of European make.or any other approved make which prior approval to be obtained from Deputy Chief Secretary (Engineering), Director (Building) after producing necessary catalogues documents.		
5	The BSR Items Nos. P 01 - P 09 are payable only after producing an original invoice from the authorized agent for "Union" brand.		
	<u>Union Brand</u>		
P 01	Supply and fixing Stainless Steel hinges of size 102 x 76 x 3mm of Union Brand & Model no.- X8203-BB-3 or approved equivalent.	Pair	3,815.00
P 02	Supply and fixing Stainless Steel hinges of size 127 x 89 x 3mm of Union Brand & Model no.- X8205-BB-3 or approved equivalent.	Pair	4,530.00
P 03	Supplying and fixing Night - latch lock of Union Brand & Model No. - 1022 SEPL or approved equivalent.	Nr.	10,655.00
P 04	Supplying and fixing single lever Mortice door lock for single sash of Union Brand & Model no.-678.24.95 CH or approved equivalent.	Nr.	5,718.00
P 05	Supplying and fixing two lever Mortice door lock for double sash of Raniyo Brand & Model no.- 965.41.94 CH or approved equivalent.	Nr.	7,829.00
P 06	Supplying and fixing cylindrical door lock of Union Brand & Model no. - 96300-SS.or approved equivalent	Nr.	5,515.00
P 07	Supplying & fixing rim lock of Raniyo Brand & Model no. - 1445 or approved equivalent.	Nr.	3,220.00
P 08	Supplying & fixing hydraulic door closer of Union Brand & Model no. - 8823 SIL or approved equivalent.	Nr.	6,201.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
P 09	Supplying & fixing stainless steel Male or Female Symbol of Union Brand & Model no. - 200SS or approved equivalent.	Nr.	1,202.00
	<u>M.M.Noorbhoy Fittings</u>		
P 10	Supplying and fixing 4" x 2 1/2" x 2.5mm thick solid brass hinges with-out ball bearing inclusive of brass screws marketed by M.M.Noorbhoy & company or approved equivalent.	Nr.	1,160.00
P 11	Supplying and fixing 4" x 3" x 2.5mm thick solid brass hinges with-out ball bearing inclusive of brass screws marketed by M.M.Noorbhoy & company or approved equivalent.	Nr.	1,220.00
P 12	Supplying and fixing 5" x 3" x 2.5mm thick solid brass hinges with-out ball bearing inclusive of brass screws marketed by M.M.Noorbhoy & company or approved equivalent.	Nr.	1,446.00
P 13	Supplying and fixing heavy duty solid brass casement fastener inclusive of brass screws marketed by M.M.Noorbhoy & company or approved equivalent.	Nr.	1,305.00
P 14	Supplying and fixing heavy duty solid brass casement stay - 12" inclusive of brass screws marketed by M.M.Noorbhoy & company or approved equivalent.	Nr.	1,332.00
P 15	Supplying and fixing heavy duty solid brass 4" center pivot inclusive of brass screws marketed by M.M.Noorbhoy & company or approved equivalent.	Pair	855.00
P 16	Supplying and fixing 4" long heavy duty solid brass tower bolt inclusive of brass screws marketed by M.M.Noorbhoy & company or approved equivalent.	Nr.	1,071.00
P 17	Supplying and fixing 6" long heavy duty solid brass tower bolt inclusive of brass screws marketed by M.M.Noorbhoy & company or approved equivalent.	Nr.	1,512.00
P 18	Supplying and fixing 8" long heavy duty solid brass tower bolt inclusive of brass screws marketed by M.M.Noorbhoy & company or approved equivalent.	Nr.	1,965.00
P 19	Supplying and fixing 10" long heavy duty solid brass tower bolt inclusive of brass screws marketed by M.M.Noorbhoy & company or approved equivalent.	Nr.	2,411.00
P 20	Supplying and fixing solid brass Door or Window pull ring of 1" dia. (Small)	Nr.	305.00
P 21	Supplying and fixing solid brass Door or Window pull ring of 1 1/4" dia. (Medium)	Nr.	352.00
P 22	Supplying and fixing solid brass Door or Window pull ring of 2" dia. (Large)	Nr.	366.00
P 23	Supplying and fixing solid brass fanlight catch.	Nr.	1,359.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
P 24	Supplying & fixing stainless steel Disabled Symbol	Nr.	870.00
	Other Fittings (for repair and maintenance in the absence of branded items mentioned in P25 to P43, following may be permitted for small quantities)		
P 25	Supplying & fixing polished brass hinges of 4" x 2 1/2" thickness 4.0mm \pm 0.2mm with a weight not less than 265g \pm 5g with a smooth surface finish.	Nr.	1,010.00
P 26	Supplying & fixing polished brass hinges of 4" x 3" thickness 4.2mm \pm 0.2mm with a weight not less than 310g \pm 5g with a smooth surface finish.	Nr.	1,208.00
P 27	Supplying & fixing polished brass hinges of 5" x 2 1/2" thickness 5.0mm \pm 0.2mm with a weight not less than 345g \pm 5g with a smooth surface finish.	Nr.	1,266.00
P 28	Supplying & fixing polished brass hinges of 5" x 3" thickness 4.3mm \pm 0.2mm with a weight not less than 380g \pm 5g with a smooth surface finish.	Nr.	1,548.00
P 29	Supplying & fixing polished brass barrel bolt of 4" x 1/2" with a weight not less than 210g \pm 5g with a smooth surface finish.	Nr.	572.00
P 30	Supplying & fixing polished brass barrel bolt of 6" x 1/2" with a weight not less than 300g \pm 5g with a smooth surface finish.	Nr.	830.00
P 31	Supplying & fixing polished brass tower bolt of 10"x 1/2" with a weight not less than 345g \pm 5g with a smooth surface finish.	Nr.	1,307.00
P 32	Supplying & fixing polished brass 1" dia. Pull ring with a weight not less than 100g \pm 5g with a smooth surface finish.	Nr.	322.00
P 33	Supplying and fixing heavy duty solid brass casement fastener.	Nr.	905.00
P 34	Supplying and fixing heavy duty solid brass casement stay - 6" .	Nr.	537.00
P 35	Supplying and fixing heavy duty solid brass casement stay - 12".	Nr.	891.00
P 36	Supplying and fixing mortice lock - Imported Chinese	Nr.	4,200.00
P 37	Supplying and fixing mortice lock - "Yale" - Italian made	Nr.	5,434.00
P 38	Supplying and fixing cupboard door lock - New star	Nr.	546.00
P 39	Supplying and fixing magnet lock	Nr.	111.00
P 40	Supplying and fixing 1" padlock	Nr.	261.00
P 41	Supplying and fixing 1 1/2" padlock	Nr.	340.00
P 42	Supplying and fixing 2" padlock	Nr.	843.00
P 43	Supplying and fixing hasp & staple	Nr.	99.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
	<u>Q - ROOFING AND CEILING</u>		
Q 01	Roof covering with calicut pattern clay tiles . (Timber frame work and ridge covering measured separately)	Sqr.	10,650.00
Q 02	Roof covering with corrugated asbestos sheets. (Timber frame work and ridge covering measured separately)	Sqr.	10,885.00
Q 03	Roof covering with corrugated asbestos colour sheets. (Timber frame work and ridge covering measured separately)	Sqr.	13,985.00
Q 04	Asbestos close fitting ridges fixed complete with roofing screws or hook bolts.	L.ft.	375.00
Q 05	Ridging with calicut pattern tiles bedded in cement & sand mortar 1:4 and coloured to match the tiles.	L.ft.	227.00
Q 06	One layer of half round tiles over existing corrugated sheets.	Sqr.	17,160.00
Q 07	3/4" x 6" wide tongued and grooved lunumidella ceiling planks fixed to underside of existing rafters with brass screws including leveling with timber strip where necessary.	Sqr.	24,585.00
Q 08	Asbestos eaves ceiling with approved timber coves & fillets. Under side to existing rafter size of fillet to be 1 1/2" x 1/2" size of cove moulding 2" x 2"	Sqr.	12,975.00
Q 09	Supplying and Fixing finished size 4" x 2" Coconut Rafters.	L.ft.	125.00
Q 10	Supplying and Fixing finished size 3 1/2 "x1 1/2" Coconut Rafters.	L.ft.	96.00
	<u>DSI TILES (NIVASI PRODUCT)</u>		
	Item Q11 - Q15 are using for the laying of DSI (NIVASI Tiles or approved equivalent as per the M/s Samson Rajarata Tiles (pvt)ltd. Manufactures specifications.		
	Timber frame work sizes specified as follows.		
	a) Ridge plate - 45mm x 190mm		
	b) Wall plate - 117mm x 190mm		
	c) Rafters - 45mm x 117mm maximum length 10'-0" @ 18" C/C		
	d) Reepers - 45mm x 25mm @ 10" C/C		
Q 11	Roof covering with Natural type main tiles of "Nivasi" or approved equivalent with approx. size 310mm x 310mm and unit weight of 3.1Kg. (Specified Timber frame work and ridge covering measured separately)	Sqr.	26,595.00
Q 12	Ridging with Natural type ridge tiles bedded in cement, sand mortar 1:5 and coloured to match the tiles.	L.ft.	455.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
Q 13	Roof covering with Natural type gable left tiles or approved equivalent .	L.ft.	325.00
Q 14	Roof covering with Natural type gable right tiles or approved equivalent .	L.ft.	325.00
Q 15	Roof covering with Natural type corner tiles or approved equivalent .	L.ft.	302.00
	<u>COLOURCON TILES</u>		
	Item Q16 -Q17 are using for the laying of DSI (NIVASI Tiles or approved equivalent as per the M/s Colourcon (put)ltd. Manufactures specifications.		
	Timber frame work sizes specified as follows.		
	a) Ridge plate - 45mm x 190mm		
	b) Wall plate - 117mm x 190mm		
	c) Rafters - 45mm x 117mm maximum lengh 10'-0" @ 18" C/C		
	d) Reepers - 45mm x 25mm @ 10" C/C		
Q 16	Roof covering with Natural type main tiles of "COLOURCON" or approved equivalent with approx. size 425 mm x 333 mm and unit weight of 4.2Kg/ft ² . (Specified Timber frame work and ridge covering measured separately)	Sqr.	16,350.00
Q 17	Ridging with Natural type ridge tiles bedded in cement, sand mortar 1:5 and coloured to match the tiles.	L.ft.	245.00
	<u>Flashing</u>		
Q 18	Aluminium Valley gutter of 3'-0" wide in gauge 24 Aluminium sheets including 3/4" thk. Ginisapu timber boarding finished & Application of two coats of wood preservative paid separately..	L.ft.	1,675.00
Q 19	Aluminium Valley gutter of 3'-0" wide in gauge 24 Aluminium sheets to existing 3/4" thk. Ginisapu timber boarding finished .	L.ft.	551.00
Q 20	Aluminium flashing of 1'- 6" wide in gauge 24 sheets Aluminium including 3/4" thk. Ginisapu timber boarding finished & Application of two coats of wood preservative paid separately..	L.ft.	1,065.00
Q 21	Aluminium flashing of 1'-6" wide in gauge 24 Aluminium sheets, bent to shape and fix to wall. (without timber boarding)	L.ft.	416.00
Q 22	G.I. Flashing 20 B.W.G. of 1'6" girth with end laps not less than 6" , turned and tuck up not less 6" in wall and pointed in cement motor 1:2	L.ft.	615.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
Q 23	G.I. Valley gutter of 3'-0" wide in gauge 18 sheets including 3/4" thk. Ginisapu timber boarding including two coats of anti-corrosive paint to sheet and Application of two coats of wood preservative paid separately... (Only to be specified when repairing an existing G.I. gutter)	L.ft.	2,515.00
Q 24	Zinc alum flashing (0.47 mm thick) and 1'6" wide bent to shape and fixed to wall (without timber boarding)	Left.	300.00
Q 25	Zinc alum Valley gutter of 3'-0" wide in 0.47 mm thick sheets including 3/4" thk. Ginisapu timber boarding & Application of two coats of wood preservative paid separately..	L.ft.	1,630.00
	<u>Roof Timber</u>		
	<u>Note :</u>		
	During the past two years, Divisional Engineers have reported that exact imperial sizes on the timber on following categories are not readily available in the market, unless logs are being purchased and sawn to the exact size. Contractor's Association has also made representation indicating that the imperial size specified in the BSR is not available on imported timber varieties, and due to scarcity of the local timber, small scale Contractors are unable to purchase logs and seasoned the timber and sawn to the imperial sizes. Market survey has confirmed the same. Accordingly, it has been decided to indicate the cross sectional size roof timber in the following manner to be in par with sectional sizes readily available in the local market, as it may not be worthwhile to prescribe timber sizes and, then request Contractors to by a large section and produce it to the required size, since there is no standardization of the timber imports. This has been done to avoid subjective decision taken by the Divisional Engineers during the project implementation phase.		
	Accordingly, the following imperial sizes are being now replaced by the following Metric sizes. 1" to be replaced by 22mm 2" to be replaced by 45mm 3" to be replaced by 70mm 4" to be replaced by 94mm 5" to be replaced by 117mm 6" to be replaced by 140mm 7" to be replaced by 165mm 8" to be replaced by 190mm		

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
	Hence, timber will now be prescribed as 2"x 1" as 45mm x 22mm 2"x 2" as 45mm x 45mm 4"x 2" as 94mm x 45mm 5"x 2" as 117mm x 45mm 5"x 3" as 117mm x 70mm 4"x 3" as 94mm x 70mm 6"x 2" as 140mm x 94mm 6"x 3" as 140mm x 70mm 6"x 4" as 140mm x 94mm 8"x 4" as 190mm x 94mm		
	Refer Preamble Notes for approved timber species. The rate for timber items will remain same irrespective of timber species.		
	All Timber should be treated at an approved klin. Timber preservation paid separately as per Item No:Q 42.		
Q 26	Roofing with calicut pattern tiles on approved local timber or imported Balau , Bitis or Kempas timber frame work complete with ridge hips etc. comprising of 165mm x 45mm ridge plate , 94mm x 70mm wall plate , 94mm x 45mm rafters @ 18" c/c and 45mm x 22mm reepers @ 12" c/c. Application of two coats of wood preservative paid separately..	Sqr.	54,255.00
Q 27	Roofing with asbestos corrugated sheets on approved local timber or imported Balau , Bitis, or Kempas timber frame work (Ridging measured separately).Comprising of 165mm x 45mm ridge plate , 94mm x 70mm wall plate , 94mm x 45mm rafters @ 30" c/c and 45mm x 45mm battens @ 3'-0" c/application of two coats of wood preservative paid separately..	Sqr.	35,155.00
Q 28	Item Deleted	Sqr.	
Q 29	Asbestos flat ceiling fixed with coves & fillets to local Micro (Eucalyptus Microcoris) or Balau , Bitis or Kempas timber frame work of 94mm x 45mm @ 4' - 0" c/c , 45mm x 45mm @ 2' - 0" c/c, fillet size to be 1 1/2" x 1/2" and cove moulding size to be 2" x 2". Application of two coats of wood preservative paid separately..	Sqr.	45,070.00
Q 30	Asbestos flat eaves ceiling fixed with coves and fillets fixed with timber work of approved local timber or imported Balau , Bitis or Kempas.fillet size to be 1 1/2" x 1/2" cove moulding size to be 2" x 2". Application of two coats of wood preservative paid separately..	Sqr.	28,965.00
Q 31	3/4" thick x 6" wide tongued and grooved lunumidella ceiling planks fixed flat on 94mm x 45mm approved local timber or imported Balau , Bitis or Kempas.and timber joist at every 2' - 0" c/c. cove moulding size to be 2" x 2". Application of two coats of wood preservative paid separately..	Sqr.	48,045.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
Q 32	Supply and fixing of tongued and grooved 3/4"x 6" lunumidella ceiling planks on top of existing rafters , with double sided aluminium foil fixed on top. Rate shall include for sand papering and smoothing one side of the planks , application of water based staining and two coats of water based sealant. Application of two coats of wood preservative paid separately..	Sqr.	28,350.00
Q 33	Supplying and fixing 190mm x 94mm , 165mm x 45mm , 140mm x 94mm , 140mm x 70mm , 140mm x 45mm , 117mm x 190mm and 45mm x 190mm approved local timber or imported Balau , Kempas or Bitis timber purling , hip/valley rafters etc. Application of two coats of wood preservative paid separately..	Cu.ft.	8,390.00
Q 34	Supplying and fixing 117mm x 70mm purling up to 12'-0" length approved local timber or imported Balau, Kempas Application of two coats of wood preservative paid separately..	L.ft.	490.00
Q 35	Supplying and fixing 94mm x 70mm wall plates up to 12'-0" length, approved local timber or imported Balau, Kempas Application of two coats of wood preservative paid separately..	L.ft.	445.00
Q 36	Supplying and fixing 117mm x 70mm , 117mm x 45mm , 94mm x 70mm approved local timber or imported timber varieties of Balau , Bitis ,Kempas timber purlins, wall plates, rafters etc. Application of two coats of wood preservative paid separately..	Cu.ft.	5,580.00
Q 37	Supplying and fixing 94mm x 45mm approved local timber or imported Balau Kempas or Bitis timber purling, rafters etc. Application of two coats of wood preservative paid separately..	L.ft.	305.00
Q 38	Supplying and fixing 45mm x 45mm local Micro (Eucalyptus Microcoris) or Balau, Kempas or Bitis timber bearers Application of two coats of wood preservative paid separately..	L.ft.	110.00
Q 39	Supplying and fixing 45mm x 22mm local micro (Eucalyptus Microcoris) or Balau, Kempas or Bitis timber reapers Application of two coats of wood preservative paid separately..	L.ft.	60.00
Q 40	Timber valance/barge board in GINISAPU timber (finished size 225mmX18mm thick) fixed to roof frame with brass screws Application of two coats of wood preservative paid separately..	L.ft.	455.00
Q 41	Timber valance/barge board in GINISAPU timber (finished size 225mm x 18mm thick) fixed to existing iron brackets with G.I. nut & bolt Application of two coats of wood preservative paid separately..	L.ft.	435.00
Q 42	Treating of timber by vacuum pressure impregnation technique or approved kiln treatment by "Browns Commodities & Logistics." or any other Authorized company. Application of two coats of wood preservative paid separately..	Cu.ft.	630.00
Q 43	Applying two coats of wood preservative (Clear) to wood work.	Sqr.	1,115.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
Q 44	Supply and fixing 20mm x 6mm x 12" long flat iron bracket for fixing valance board/barge board. Rate shall include for two coats of anti-corrosive paint.	Nr.	430.00
	<u>Test</u>		
Q 45	Testing of a timber sample for identification from the Timber corporation laboratory.	Per Test	2,160.00
	<u>R - GUTTERS AND DOWN PIPES</u>		
R 01	P.V.C. eaves gutter 4 1/2" square type fixed to valance board with P.V.C. brackets @ 1' - 6" c/c including necessary mitre joints , gutter joiners , running heads & end caps.	L.ft.	240.00
R 02	P.V.C. down pipes 3 1/2" dia. fixed to wall with 1" clearance to wall and Timber plugging buried to walls and P.V.C. clips @ 4'-0" c/c including necessary sockets, bends, elbows.	L.ft.	295.00
	<u>S - SANITARY FITTINGS</u>		
	<u>Note :</u>		
1	In view of the variety of sanitary ware and fittings available in the market, it has become necessary to prescribe the exact quality requirements in terms of performance and durability aspects. The "Rocell & American Standard" brands and respective model numbers have been chosen as a bench mark to establish the said requirements.		
2	The brand name and model number appearing in the respective BSR items are purely meant to describe the performance standard of the said fitting/item and does not imply in any way that only the "Rocell & American Standard" brands are recommended or considered to be restricted to the "Rocell & American Standard" brands.		
3	Any other make/brand that has equivalent performance characteristics are considered as equivalent provided such fittings meet with the following criteria.		
(a)	Has an authorized local agent in Sri Lanka		
(b)	The local agent has been in the trade of the offered make for not less than 5 years.		
(c)	The offered sanitary fittings has a 10 Year manufacturer's warranty issued by the agent.		
(d)	The cistern mechanism shall have an assurance for the availability of spares for the next 3 years.		
(e)	The fittings are manufactured in conformity to BS, JIS, A.S.T.M., A.S. or S.L.S. standards.		
(f)	The dimensions and performance characteristics are in par with the stated model.		

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
4	The brands that may be considered as equivalent are "Ideal" brand, or "Twyford" brand or any other approved make for which prior approval to be obtained from the Divisional Engineer.		
5 (a)	In case where wash basin outlet directly falls on to an open drain, the bottle trap may be omitted.		
5 (b)	For wash basins fixed on open areas plastic tap of item T 01 be specified.		
	<u>Luxury Range</u>		
S 01	Supply and fix white vitreous china floor standing wash basin and pedestal with overflow hole and single tap hole in center of "Rocell" brand & model "Intense" or approved equivalent complete to working order inclusive of the 1 1/4" chromium plated waste outlet of "Rocell" brand & model "A706" and 1 1/4" chromium plated siphon cleanable bottle trap of "Rocell" brand & model "A186".	Nr.	32,265.00
S 02	Supply and fix white vitreous china floor standing close coupled semi back to wall water closet suite with wash down flushing with 6/3 liters dual flushing has horizontal outlet with vario drain bend and two lateral holes for bottom water connection , P trap, cistern with water inlet from rear of "Rocell" brand & model "Intense" or approved equivalent complete to working order inclusive of universal bend of "Rocell" brand & model "Vario Joint".	Nr.	49,675.00
S 03	Supply and fix Chromium plated single level wash basin mixer tap with pop-up waste, flexible connection of "GROHE" brand model No." 32204001" or approved equivalent with 5 year written warranty from the authorized agent.	Nr.	35,500.00
S 04	Supply and fix wall hung wash basin with half pedestal and single tap hole in center of "Rocell" brand model No."Dew Point" or approved equivalent complete to working order.	Nr.	30,065.00
S 05	Supply and fix Chromium plated shower level built-in-shower mixer with auto diverter shower arm jointed shower head of "GROHE" brand or approved equivalent.	Nr.	53,060.00
S 06	Supply and fix Chromium plated pillar tap (cold water) for wash basin of "GROHE" brand model No.32813000 (bauflow) or approved equivalent with 10year manufacturer's warranty.	Nr.	13,735.00
S 07	Supply and fix Chromium plated Bip tap of "GROHE" brand model No.20235000 or approved equivalent with 10year manufacturer's warranty.	Nr.	10,680.00
S 08	Supply and fix Chromium plated Sink tap(Swan neck type) of "GROHE" brand model No.31220000 (bauflow) or approved equivalent with 10year manufacturer's warranty.	Nr.	17,350.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
S 09	Supply and fix Concealed valve of "GROHE" brand model No.19854001 & 29800000 or approved equivalent with 10year manufacturer's warranty.	Nr.	5,870.00
	<u>Normal Range</u>		
S 10	Supply and fix white vitreous china floor standing wash basin and pedestal with overflow hole and single tap hole in center of "Rocell" brand & model "Urban D" or approved equivalent complete to working order inclusive of the 1 1/4" chromium plated waste outlet of "Rocell" brand & model "A706" and 1 1/4" chromium plated siphon cleanable bottle trap of "Rocell" brand & model "A186".	Nr.	19,105.00
S 11	Supply and fix white vitreous china floor standing wash basin and pedestal with overflow hole and single tap hole in center of "Rocell" brand & model "Urban D" or approved equivalent complete to working order inclusive of the 1 1/4" chromium plated waste outlet .	Nr.	13,050.00
S 12	Supply and fix white vitreous china floor standing close coupled semi back to wall water closet suite with wash down flushing with 6/3 liters dual flushing, including vario drain bend and two lateral holes for bottom water connection , P trap, cistern with water inlet from rear of "Rocell" brand & model "Urban D" or approved equivalent complete to working order inclusive of universal bend of "Rocell" brand & model "Vario Joint".	Nr.	29,460.00
S 13	Supply and fix Chromium plated single level wash basin mixer tap without pop-up waste with connection flex of "S-lon" brand model "XG2 SOH" or approved equivalent with 5 year written warranty from the authorized agent.	Nr.	8,005.00
S 14	Supply and fix squatting pan with foot rest of "Rocell" brand model No. OPA651 or approved equivalent.	Nr.	7,160.00
S 15	Supply and fix plastic cistern for squatting pan of "Rocell" brand or approved equivalent including connecting pipe between tank and squatting pan.	Nr.	6,380.00
S 16	Supply and fix ceramic urinal with flush valve of "Rocell" brand model CX2001 or approved equivalent complete to working order.	Nr.	29,880.00
S 17	Supply and fix Chromium plated 1 1/4" dia.siphon cleanable bottle trap of "Rocell" brand model No.A186 or approved equivalent.	Nr.	5,315.00
S 18	Supply and fix Chromium plated 1 1/4" chromium plated waste outlet of "Rocell" brand & model "A706" or approved equivalent.	Nr.	1,970.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
S 19	Supply and fix Chromium plated 1/2" dia. angle valve of "Rocell" brand model No."OPA200" or approved equivalent.	Nr.	1,670.00
S 20	Supply and fix laboratory sink of "Rocell" brand & model "Xenon" or approved equivalent complete to working order. (1 1/4" chromium plated waste outlet of "Rocell" brand & model "A706" and 1 1/4" chromium plated siphon cleanable bottle trap of "Rocell" brand & model "A186")..	Nr.	21,990.00
S 21	Supply and fix 5mm thick mirror of size 18" x 24" double coated with pencil edge back strecher.	Nr.	2,580.00
S 22	Supply and fix Chromium plated pillar tap for wash basin of "PLUMBER" brand.	Nr.	4,370.00
S 23	Supply and fix Chromium plated bib tap of "plumber" brand .	Nr.	2,205.00
	<u>Bathroom Accessories</u>		
S 24	Supply and fix chromium plated Soap Basket of "Rocell" brand or approved equivalent. (Semi-luxury range)	Nr.	4,130.00
S 25	Supply and fix chromium plated brass body and glass Soap Dish of "Rocell" brand & model "Urban" - DP 6703 or approved equivalent. (Luxury range)	Nr.	3,295.00
S 26	Supply and fix chromium plated brass body and glass Tumbler Holder of "Rocell" brand & model "Urban" or approved equivalent.	Nr.	3,210.00
S 27	Supply and fix chromium plated Towel Ring of "Rocell" brand & model "Urban" or approved equivalent.	Nr.	3,730.00
S 28	Supply and fix chromium plated Robe Hook of "Rocell" brand & model "Urban" or approved equivalent.	Nr.	1,960.00
S 29	Supply and fix chromium plated Toilet Paper Holder of "Rocell" brand & model "Urban" or approved equivalent.	Nr.	4,335.00
S 30	Supply and fix chromium plated Toilet brush Holder of "Rocell" brand & model "Urban" or approved equivalent.	Nr.	4,880.00
S 31	Supply and fix chromium plated 600mm long Single Towel Bar of "Rocell" brand & model "Urban" or approved equivalent.	Nr.	6,005.00
S 32	Supply and fix chromium plated 600mm long Double Towel Bars of "Rocell" brand & model "Urban" or approved equivalent.	Nr.	8,095.00
S 33	Supply and fix chromium plated 600mm long Towel Rack of "Rocell" brand & model "Urban" or approved equivalent.	Nr.	11,325.00
S 34	Supply and fix chromium plated brass body 450mm long Glass Shelf of "Rocell" brand & model "Urban" or approved equivalent.	Nr.	3,810.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
S 35	Supply and fix chromium plated Bidet Spray of "Rocell" brand & model "Urban" or approved equivalent.	Nr.	5,410.00
	Supply and fix chromium plated Multi Floor Trap of "Rocell" brand & model "Miro" or approved equivalent.	Nr.	1,555.00
	<u>Disable Fittings & Accessories = Luxury Range</u>		
S 36	Twyford Doc "M" Pack For Disabled - white (PK B145 WH) comprising Avalon Rimless HO pan and fixing. Avalon Rimless cistern .fittings and Spatula lever 4/6 liter flush, Avalon seat ring. Stainless steel hinge with stability buffers. Hand rinse 1 center tap hole, Spray mixer lever operated, Mixing valve(Thermostatic TMV3) DOC-M Support rails. DOC-M hinged support rail and toilet roll holder, wall bolts(pairs), Grid waste, Cistern cover clips & Labsin. with 25 years warranty. (Approx. toilet floor area not less than 7' 6" x 8' 6")	Nr.	253,480.00
	<u>Disable Fittings & Accessories - Normal Range</u>		
S 37	Supply and fix ceramic wall hung wash basin for disabled of "Vitra" brand, Model No.6147 with Plush Lock waste & overflow & Bottle Trap Chrome plated or approved equivalent.	Nr.	27,825.00
S 38	Supply and fix Disable Water Closet "Vitra" brand - Model No.6927 with seat cover & water tank or approved equivalent complete to working order.	Nr.	53,400.00
S 39	Supply and fix Chromium plated single level wash basin mixer tap without pop-up waste with connection flex of "cobra" brand or approved equivalent with 5 year written warranty from the authorized agent.	Nr.	15,240.00
S 40	Supply and fix Heavy duty Straight grab bar for disabled of "J&T " brand, model "GB029" or approved equivalent.	Nr.	6,537.00
S 41	Supply and fix Heavy duty grab bar for disabled of "Rocell" brand, model "RB.TGN.OBA140.SSPB BAO 130CS" Angled Bar or approved equivalent.	Nr.	8,520.00
S 42	Supply and fix grip bar for disabled of "American Standard" brand, model Apex - HR-320460-01 or approved equivalent.	Nr.	23,988.00
S 43	Supply and fix hand grip-shower angle - L shape /L Hand rail for disabled of "American Standard" brand, model D 32 - HR-320540-01L or approved equivalent.	Nr.	48,335.00
S 44	Supply and fix Turn up Nylon Grab Bar for disabled of "American Standard" brand, model(CF9401-000-04) or approved equivalent.	Nr.	155,685.00
S 45	Supply and fix Ceraplan single hole lava faucet (Elbow Operator) for disabled of "American Standard" brand, model CF-1261or approved equivalent.	Nr.	20,070.00
S 46	Supply and fix Universal angle valve 1/2 x 1/2 for disabled of "GROHE " brand, model 2201600 or approved equivalent.	Nr.	1,940.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
S 47	Supply and fix Head shower for disabled of "GROHE" brand, model 27541000 or approved equivalent.	Nr.	14,125.00
S 48	Supply and fix Shower Arm for disabled of "GROHE" brand, model 27851000 or approved equivalent.	Nr.	16,595.00
S 49	Supply and fix Single Lever shower mixer for disabled of "GROHE" brand, model 29044000 or approved equivalent.	Nr.	19,035.00
S 50	Supply and fix hand Swing up (Folder) Grab bar for disabled of "J&T" brand, model "GB018" or approved equivalent.	Nr.	27,390.00
S 51	Supply and fix Floor to Wall Heavy Duty Grab Bar for disabled of "J&T" brand, model "GB - 008" or approved equivalent.	Nr.	42,950.00
S 52	Supply and fix Shower Angle - Horizontal Wall Heavy Duty Grab Bar for disabled of "J&T" brand, model "GB-002" or approved equivalent.	Nr.	14,790.00
S 53	Supply and fix 36" x 18" stainless steel kitchen sink with single bowl & single drain of "Seal core" by mascons or approved equivalent with 5 year written warranty from the authorized agent. including PVC bottle trap and water connection with flexible hose, all complete to working order. (Swan neck tap paid separately.)	Nr.	5,990.00
S 54	Supply and fix 17" x 18" stainless steel kitchen sink with single bowl of "Seal core" by mascons or approved equivalent with 5 year written warranty from the authorized agent. including PVC bottle trap and water connection with flexible hose, all complete to working order. (Swan neck tap paid separately.)	Nr.	4,805.00
S 55	Supply and fix Chromium plated Single Lever Swan neck tap of "Mono" brand model No.6304 M or approved equivalent.	Nr.	2,820.00
	<u>Fittings for rough usage (where probability of breakage may be high due to vandalism) Item Nos. S 56 and S 67.</u>		
S 56	Supply and fix closet Squatting pan with foot rest - square type (Indian make)	Nr.	4,160.00
S 57	Supply and fix ceramic wash basin with approved quality (pedestal) and complete to work in order. Rate without pillar tap & bottle trap.	Nr.	8,330.00
S 58	Supply and fix ceramic wall hung corner wash basin with approved quality and complete to work in order. Rate inclusive of brackets and connection to pipe line, but without pillar tap & bottle trap.	Nr.	5,518.00
S 59	Supplying and fixing 1 1/4" (40 mm) dia. PVC Bottle Trap.	Nr.	745.00
S 60	Shower rose chromium plated 4" dia. Fixed vertically with 1/2" valve socket including water connection.	Nr.	1,180.00
S 61	Supply and fixing plastic seat cover for Water Closet.	Nr.	865.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
S 62	Mirror bevelled rectangular 20"x 15" with hard wood back 3/4" thickness finished with 2 coats of enamel paint. Aluminium clips and key hole hanging plate including glass shelves.	Nr.	6,305.00
S 63	Supply and fixing high level cistern	Nr.	6,480.00
S 64	Supply and fixing low level cistern	Nr.	5,140.00
S 65	Supply and fixing Garden Tap 1/2"	Nr.	1,830.00
S 66	Supply and fixing Chromium plated Soap Tray	Nr.	1,065.00
S 67	Supply and fixing Chromium plated Single Towel Bar	Nr.	1,185.00
	<u>T - PLUMBING</u>		
	<u>ACCESSORIES</u>		
	<u>"S-lon" Brand or Approved Equivalent Fittings with 1 year manufacturer's warranty for taps</u>		
T 01	Supplying and fixing Plastic 1/2" Bib tap of "S-lon" brand or approved equivalent.	Nr.	545.00
T 02	Supplying and fixing Plastic 1/2" Angle valve of "S-lon" brand or approved equivalent.	Nr.	520.00
T 03	Supplying and fixing Plastic 1/2" Swan-neck tap of "S-lon" brand or approved equivalent.	Nr.	1,524.00
T 04	Supplying and fixing Plastic 1/2" Piller tap of "S-lon" brand or approved equivalent.	Nr.	1,005.00
T 05	Supplying and fixing Plastic Bidet Shower of "S-lon" brand or approved equivalent.	Nr.	1,102.00
T 06	Supply and fixing Plastic 1/2" stop tap of "S-lon" brand or approved equivalent.	Nr.	405.00
T 07	Supply and fixing 1/2" dia plastic flexible hose - 12" length.	Nr.	325.00
T 08	Supply and fixing 1/2" dia plastic flexible hose - 18" length.	Nr.	420.00
T 09	Supplying and fixing Shower rose of "S-lon" brand or approved equivalent.	Nr.	815.00
	<u>"Pegler" Brand or Approved Equivalent Fittings(T 10 -T 17)</u>		
	<u>Low Pressure</u>		
T 10	Supply and fixing 1/2" dia Brass Ball valve "Pegler" Brand or approved equivalent.	Nr.	2,220.00
T 11	Supply and fixing 3/4" dia Brass Ball valve "Pegler" Brand or approved equivalent.	Nr.	2,450.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
T 12	Supply and fixing 1" dia Brass Ball valve "Pegler" Brand or approved equivalent.	Nr.	3,185.00
T 13	Supply and fixing 1 1/4" dia Brass Ball valve "Pegler" Brand or approved equivalent.	Nr.	4,395.00
T 14	Supply and fixing 1 1/2" dia Brass Ball valve "Pegler" Brand or approved equivalent.	Nr.	6,710.00
T 15	Supply and fixing 2" dia Brass Ball valve "Pegler" Brand or approved equivalent.	Nr.	11,450.00
	<u>High Pressure</u>		
T 16	Supply and fixing 3" dia Brass Ball valve "Pegler" Brand or approved equivalent.	Nr.	27,295.00
T 17	Supply and fixing 4" dia Brass Ball valve "Pegler" Brand or approved equivalent.	Nr.	43,885.00
	<u>PVC Fittings</u>		
T 18	Supply and fixing 1/2" dia PVC Compact Ball valve.	Nr.	445.00
T 19	Supply and fixing 3/4" dia PVC Compact Ball valve.	Nr.	565.00
T 20	Supply and fixing 1" dia PVC Compact Ball valve.	Nr.	585.00
T 21	Supply and fixing 1 1/4" dia PVC Compact Ball valve.	Nr.	750.00
T 22	Supply and fixing 1 1/2" dia PVC Compact Ball valve.	Nr.	895.00
T 23	Supply and fixing 2" dia PVC Compact Ball valve.	Nr.	1,250.00
T 24	Supply and fixing 3" dia PVC Compact Ball valve.	Nr.	3,040.00
T 25	Supply and fixing 1/2" dia PVC Union.	Nr.	455.00
T 26	Supply and fixing 1" dia PVC Union.	Nr.	530.00
	<u>Water Tanks</u>		
T 27	Supplying and installing "Plastishell" (Premium) or any other water tank 500 Ltr. capacity (fittings paid separately) at an average height of 12'-0". Tank shall have a 5 year warranty from the manufacture.	Nr.	13,185.00
T 28	Supplying and installing "Plastishell" (Premium) or any other water tank 1000 Ltr. capacity (fittings paid separately) at an average height of 12'-0". Tank shall have a 5 year warranty from the manufacture.	Nr.	20,625.00
T 29	Supplying and installing 2000 ltr. "Plastishell" (Premium) or any other water tank at average 12 ft. height including transporting and hoisting in position Tank shall have a 5 year warranty from the manufacture.	Nr.	34,215.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
T 30	Supplying and installing 5000 ltr. "Plastishell" (Premium) or any other water tank at average 12 ft. height including transporting and hoisting in position Tank shall have a 5 year warranty from the manufacture.	Nr.	73,830.00
	<u>P.V.C. PIPES</u>		
	All P.V.C. pipes should confirm to S.L.S. 147. The fittings should be of the same brand as pipes.		
	<u>Water Supply Pipes.</u>		
T 31	Supplying laying and/or fixing 1/2" dia. P.V.C. pipes Type 1000 (Specials paid separately).	L.ft.	85.00
T 32	Supplying laying and/or fixing 3/4" dia. P.V.C. pipes Type 1000 (Specials paid separately).	L.ft.	119.00
T 33	Supplying laying and/or fixing 1" dia. P.V.C. pipes Type 1000 (Specials paid separately).	L.ft.	127.00
T 34	Supplying laying and/or fixing 1 1/4" dia. P.V.C. pipes Type 1000 (Specials paid separately).	L.ft.	155.00
T 35	Supplying laying and/or fixing 1 1/2" dia. P.V.C. pipes Type 1000 (Specials paid separately).	L.ft.	199.00
T 36	Supplying laying and/or fixing 2" dia. P.V.C. pipes Type 1000 (Specials paid separately).	L.ft.	306.00
	<u>Waste Water Pipes.</u>		
T 37	Supplying and Fixing 1 1/4" dia P.V.C. waste pipe (type 600)	L.ft.	175.00
T 38	Supplying and fixing 1 1/2" dia P.V.C. waste pipe (type 600)	L.ft.	198.00
T 39	Supplying and fixing 2" dia. P.V.C waste pipe (type 600)	L.ft.	272.00
T 40	Supplying and fixing 4" dia. P.V.C waste pipe (type 600)	L.ft.	537.00
	<u>Sewer Pipes.</u>		
T 41	Supplying and laying 4" dia.P.V.C. sewer pipes (type 600) Including cement concrete surrounding 1:3:6: (1") as per Drg. No:- WSS 270 - Type I . Excavation paid separately.	L.ft.	1,256.00
T 42	Supplying and laying 6" dia.P.V.C. sewer pipes (type 600) Including cement concrete surrounding 1:3:6: (1") as per Drg. No:- WSS 270 - Type II . Excavation paid separately.	L.ft.	1,996.00
T 43	Supplying and laying 4" dia.P.V.C. sewer pipes (type 600) fixed to wall and floor slab with clips.	L.ft.	646.00
T 44	Supplying and laying 6" dia. P.V.C. sewer pipes (type 600) fixed to wall and floor slab with clips.	L.ft.	1,134.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
T 45	Supplying and laying 4" dia. P.V.C. perforated pipes (type 600) with 10mm dia. Holes @ 3" c/c as per details. Necessary excavation & rubble packing paid separately.	L.ft.	569.00
	<u>P.V.C. Specials.</u>		
T 46	Supplying and fixing 1/2" dia PVC Socket	Nr.	92.00
T 47	Supplying and fixing 1/2" dia. PVC Valve Socket	Nr.	98.00
T 48	Supplying and fixing 1/2" dia. PVC Faucet Socket	Nr.	95.00
T 49	Supplying and fixing 1/2" dia. PVC Elbow	Nr.	92.00
T 50	Supplying and fixing 1/2" dia. PVC Bend	Nr.	105.00
T 51	Supplying and fixing 1/2" dia. PVC Equal Tee	Nr.	95.00
T 52	Supplying and fixing 1/2" dia. PVC Clips	Nr.	31.00
T 53	Supplying and fixing 3/4" dia PVC Socket	Nr.	93.00
T 54	Supplying and fixing 3/4" dia. PVC Valve Socket	Nr.	100.00
T 55	Supplying and fixing 3/4" dia. PVC Faucet Socket	Nr.	100.00
T 56	Supplying and fixing 3/4" dia. PVC Elbow	Nr.	100.00
T 57	Supplying and fixing 3/4" dia. PVC Bend	Nr.	109.00
T 58	Supplying and fixing 3/4" dia. PVC Equal Tee	Nr.	109.00
T 59	Supplying and fixing 3/4" dia. PVC Clips	Nr.	35.00
T 60	Supplying and fixing 1" dia PVC Socket	Nr.	109.00
T 61	Supplying and fixing 1" dia. PVC Valve Socket	Nr.	105.00
T 62	Supplying and fixing 1" dia. PVC Faucet Socket	Nr.	113.00
T 63	Supplying and fixing 1" dia. PVC Elbow	Nr.	113.00
T 64	Supplying and fixing 1" dia. PVC Bend	Nr.	129.00
T 65	Supplying and fixing 1" dia. PVC Equal Tee	Nr.	137.00
T 66	Supplying and fixing 1" dia. PVC Clips	Nr.	37.00
T 67	Supplying and fixing 1 1/4" dia PVC Socket	Nr.	138.00
T 68	Supplying and fixing 1 1/4" dia. PVC Valve Socket	Nr.	153.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
T 69	Supplying and fixing 1 1/4" dia. PVC Faucet Socket	Nr.	156.00
T 70	Supplying and fixing 1 1/4" dia. PVC Elbow	Nr.	162.00
T 71	Supplying and fixing 1 1/4" dia. PVC Bend	Nr.	213.00
T 72	Supplying and fixing 1 1/4" dia. PVC Equal Tee	Nr.	189.00
T 73	Supplying and fixing 1 1/4" dia. PVC Clips	Nr.	38.00
T 74	Supplying and fixing 1 1/2" dia PVC Socket	Nr.	195.00
T 75	Supplying and fixing 1 1/2" dia. PVC Valve Socket	Nr.	200.00
T 76	Supplying and fixing 1 1/2" dia. PVC Faucet Socket	Nr.	208.00
T 77	Supplying and fixing 1 1/2" dia. PVC Elbow	Nr.	232.00
T 78	Supplying and fixing 1 1/2" dia. PVC Bend	Nr.	321.00
T 79	Supplying and fixing 1 1/2" dia. PVC Equal Tee	Nr.	292.00
T 80	Supplying and fixing 1 1/2" dia. PVC Clips	Nr.	45.00
T 81	Supplying and fixing 2" dia PVC Socket	Nr.	235.00
T 82	Supplying and fixing 2" dia. PVC Valve Socket	Nr.	246.00
T 83	Supplying and fixing 2" dia. PVC Faucet Socket	Nr.	256.00
T 84	Supplying and fixing 2" dia. PVC Elbow	Nr.	294.00
T 85	Supplying and fixing 2" dia. PVC Bend	Nr.	470.00
T 86	Supplying and fixing 2" dia. PVC Equal Tee	Nr.	364.00
T 87	Supplying and fixing 2" dia. PVC Clips	Nr.	46.00
T 88	Supplying and fixing 2 1/2" dia PVC Socket	Nr.	293.00
T 89	Supplying and fixing 2 1/2" dia. PVC Valve Socket	Nr.	353.00
T 90	Supplying and fixing 2 1/2" dia. PVC Faucet Socket	Nr.	392.00
T 91	Supplying and fixing 2 1/2" dia. PVC Elbow	Nr.	489.00
T 92	Supplying and fixing 2 1/2" dia. PVC Bend	Nr.	869.00
T 93	Supplying and fixing 2 1/2" dia. PVC Equal Tee	Nr.	485.00
T 94	Supplying and fixing 2 1/2" dia. PVC Clips	Nr.	83.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
T 95	Supplying and fixing 3" dia PVC Socket	Nr.	526.00
T 96	Supplying and fixing 3" dia. PVC Valve Socket	Nr.	586.00
T 97	Supplying and fixing 3" dia. PVC Faucet Socket	Nr.	586.00
T 98	Supplying and fixing 3" dia. PVC Elbow	Nr.	682.00
T 99	Supplying and fixing 3" dia. PVC Bend	Nr.	1,758.00
T 100	Supplying and fixing 3" dia. PVC Equal Tee	Nr.	882.00
T 101	Supplying and fixing 3" dia. PVC Clips	Nr.	100.00
T 102	Supplying and fixing 2" - 1 1/2" dia. PVC. Reducing Socket	Nr.	222.00
T 103	Supplying and fixing 2" - 1 1/4" dia. PVC. Reducing Socket	Nr.	211.00
T 104	Supplying and fixing 2" - 1" dia. PVC. Reducing Socket	Nr.	206.00
T 105	Supplying and fixing 2" - 3/4" dia. PVC. Reducing Socket	Nr.	202.00
T 106	Supplying and fixing 2" - 1/2" dia. PVC. Reducing Socket	Nr.	198.00
T 107	Supplying and fixing 1 1/2" - 1 1/4" dia. PVC. Reducing Socket	Nr.	178.00
T 108	Supplying and fixing 1 1/2" - 1 1/2" dia. PVC. Reducing Socket	Nr.	174.00
T 109	Supplying and fixing 1 1/2" - 3/4" dia. PVC. Reducing Socket	Nr.	156.00
T 110	Supplying and fixing 1 1/2" - 1/2" dia. PVC. Reducing Socket	Nr.	146.00
T 111	Supplying and fixing 1 1/4" - 1" dia. PVC. Reducing Socket	Nr.	141.00
T 112	Supplying and fixing 1 1/4" - 3/4" dia. PVC. Reducing Socket	Nr.	132.00
T 113	Supplying and fixing 1 1/4" - 1/2" dia. PVC. Reducing Socket	Nr.	122.00
T 114	Supplying and fixing 1" - 3/4" dia. PVC. Reducing Socket	Nr.	109.00
T 115	Supplying and fixing 1" - 1/2" dia. PVC. Reducing Socket	Nr.	103.00
T 116	Supplying and fixing 3/4" - 1/2" dia. PVC. Reducing Socket	Nr.	93.00
T 117	Supplying and fixing 2" - 1 1/2" dia. PVC. Reducing Tee.	Nr.	370.00
T 118	Supplying and fixing 2" - 1 1/4" dia. PVC. Reducing Tee.	Nr.	362.00
T 119	Supplying and fixing 2" - 1" dia. PVC. Reducing Tee.	Nr.	357.00
T 120	Supplying and fixing 2" - 3/4" dia. PVC. Reducing Tee.	Nr.	355.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
T 121	Supplying and fixing 2" - 1/2" dia. PVC. Reducing Tee.	Nr.	348.00
T 122	Supplying and fixing 1 1/2" - 1 1/4" dia. PVC. Reducing Tee.	Nr.	247.00
T 123	Supplying and fixing 1 1/2" - 1" dia. PVC. Reducing Tee.	Nr.	222.00
T 124	Supplying and fixing 1 1/2" - 3/4" dia. PVC. Reducing Tee.	Nr.	212.00
T 125	Supplying and fixing 1 1/2" - 1/2" dia. PVC. Reducing Tee.	Nr.	190.00
T 126	Supplying and fixing 1 1/4" - 1" dia. PVC. Reducing Tee.	Nr.	176.00
T 127	Supplying and fixing 1 1/4" - 3/4" dia. PVC. Reducing Tee.	Nr.	174.00
T 128	Supplying and fixing 1 1/4" - 1/2" dia. PVC. Reducing Tee.	Nr.	148.00
T 129	Supplying and fixing 1" - 3/4" dia. PVC. Reducing Tee.	Nr.	136.00
T 130	Supplying and fixing 1" - 1/2" dia. PVC. Reducing Tee.	Nr.	126.00
T 131	Supplying and fixing 3/4" - 1/2" dia. PVC. Reducing Tee.	Nr.	112.00
T 132	Supplying and fixing 1" - 3/4" dia. PVC. Reducing Foucet Tee.	Nr.	141.00
T 133	Supplying and fixing 1" - 1/2" dia. PVC. Reducing Faucet Tee.	Nr.	129.00
T 134	Supplying and fixing 3/4" - 1/2" dia. PVC. Reducing Faucet Tee.	Nr.	119.00
T 135	Supplying and fixing 1" - 3/4" 2 dia. PVC. Reducing Elbow.	Nr.	138.00
T 136	Supplying and fixing 1" - 1/2" 2 dia. PVC. Reducing Elbow.	Nr.	130.00
T 137	Supplying and fixing 3/4" - 1/2" dia. PVC. Reducing Elbow.	Nr.	130.00
	<u>Special Pipe fittings</u>		
T 138	Supplying and fixing 4" (110 mm) dia. Double access branch with cleaning eye.	Nr.	1,568.00
T 139	Supplying and fixing 4" (110 mm) dia Single access branch with cleaning eye.	Nr.	1,214.00
T 140	Supplying and fixing 4" (110 mm) dia single branch.	Nr.	1,002.00
T 141	Supplying and fixing 4" (110 mm) dia Swept bend with cleaning eye.	Nr.	904.00
T 142	Supplying and fixing 4" (110 mm) dia Swept bend.	Nr.	622.00
T 143	Supplying and fixing 4" (110 mm) dia Swept tee with cleaning eye.	Nr.	1,154.00
T 144	Supplying and fixing 4" (110 mm) dia Swept tee.	Nr.	964.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
T 145	Supplying and fixing 4" (110 mm) dia " P " trap.	Nr.	1,857.00
T 146	Supplying and fixing 4" (110 mm) dia " S " trap.	Nr.	2,014.00
T 147	Supplying and fixing 4" (110 mm) Multi floor trap (Catch pit).	Nr.	829.00
T 148	Supplying and fixing 4" (110 mm) dia Tee with cleaning eye.	Nr.	1,040.00
T 149	Supplying and fixing 4" (110 mm) dia.Bend.	Nr.	1,628.00
T 150	Supplying and fixing 6" (160mm) dia. Bend.	Nr.	3,788.00
T 151	Supplying and fixing Reducing Tee 6" x 4" (160mm x 110mm)	Nr.	2,170.00
T 152	Supplying and fixing 2" (63 mm)dia.Vent Cowl (Wire Dome)	Nr.	214.00
T 153	Supplying and fixing 4" (110mm) dia.Vent Cowl (Wire Dome)	Nr.	319.00
T 154	Supplying and fixing 1 1/2" (50 mm) dia Swept tee with cleaning eye.	Nr.	456.00
T 155	Supplying and fixing 1 1/2" (50 mm) dia Swept tee.	Nr.	450.00
T 156	Supplying and fixing 1 1/2" (50 mm) dia Equal tee.	Nr.	292.00
T 157	Supplying and fixing 1 1/2" (50 mm) dia Bend with cleaning eye.	Nr.	708.00
	<u>Hot water Pipes & Fittings</u>		
T 158	Supplying , laying and/or fixing 1/2" dia. CPVC - SDR pipes. (Specials paid separately).	L.ft.	151.00
T 159	Supplying , laying and/or fixing 1" dia. CPVC - SDR pipes. (Specials paid separately).	L.ft.	243.00
T 160	Supplying and fixing 1/2" dia. CPVC Socket.	Nr.	89.00
T 161	Supplying and fixing 1" dia. CPVC Socket.	Nr.	159.00
T 162	Supplying and fixing 1/2" dia. CPVC Valve Socket.	Nr.	101.00
T 163	Supplying and fixing 1" dia. CPVC Valve Socket.	Nr.	206.00
T 164	Supplying and fixing 1/2" dia. CPVC Faucet Socket.	Nr.	118.00
T 165	Supplying and fixing 1" dia. CPVC Faucet Socket.	Nr.	230.00
T 166	Supplying and fixing 1/2" dia. CPVC Tee.	Nr.	118.00
T 167	Supplying and fixing 1" dia. CPVC Tee.	Nr.	404.00
T 168	Supplying and fixing CPVC Elbow 1/2" x 45°	Nr.	112.00
T 169	Supplying and fixing CPVC Elbow 1/2" x 90°	Nr.	103.00
T 170	Supplying and fixing CPVC Elbow 1" x 45°	Nr.	264.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
T 171	Supplying and fixing CPVC Elbow 1" x 90°	Nr.	217.00
T 172	Supplying and fixing CPVC Reducing Socket 1" x 1/2"	Nr.	164.00
T 173	Supplying and fixing CPVC Reducing Tee 1" x 1/2"	Nr.	331.00
T 174	Supplying and fixing 1/2" dia. CPVC End Cap.	Nr.	72.00
T 175	Supplying and fixing 1" dia. CPVC End Cap.	Nr.	140.00
T 176	Supplying and fixing 1/2" dia. CPVC Tap End Plug.	Nr.	99.00
T 177	Supplying and fixing 1/2" dia. CPVC Union.	Nr.	581.00
T 178	Supplying and fixing 1/2" dia. CPVC Elbow Holder.	Nr.	399.00
T 179	Supplying and fixing 1" dia. CPVC Elbow Holder.	Nr.	524.00
T 180	Supplying and fixing 1/2" dia. CPVC Brass Male Adapter.	Nr.	617.00
T 181	Supplying and fixing 1/2" dia. CPVC Brass Female Adapter.	Nr.	617.00
T 182	Supplying and fixing 1/2" dia. CPVC Brass Elbow.	Nr.	464.00
	<u>Pumps & Accessories</u>		
T 183	Supplying and fixing water pump single phase manufactured by " Jinasena" Model no:- N110T/1 ,size 1" x 1" , 0.75 H.P. , total head 80'-0" , out put 1000 l.g/hr. as per manufacturer's specifications. Rate include for fixing 1" dia. Foot valve approved make, Positioning and mount the pump on a concrete bed 9" x 9" x 3" thick in 1:2:4(3/4") with 10mm dia. hexagonal bolts to required length , Nuts & Washers 1/16" thick complete in working order using necessary P.V.C. pipes, specials...etc. & electrical supply from the closest DB. Pipes , specials & electricity connection paid separatly.	Nr.	24,800.00
T 184	Supplying and fixing 1" Deep Well Kit by " Jinasena" Model no:- Type A as per manufacturer's specifications and complete in working order using necessary P.V.C. pipes, specials...etc. & electrical supply from the closest DB. (Pipes , specials & electricity connection paid separatly.)	Nr.	8,520.00
	<u>Test</u>		
T 185	Water Pressure testing for PVC pipes for 6 bars.	Item	1,080.00
T 186	Testing of Water tanks & Sumps as per clause 3.8.6 of SCA/4/11	Item	4,000.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
	<u>U - DRAINAGE</u>		
	<u>Waste Water Manhole - Brick</u>		
U 01	Construction of waste water brick manhole internal size of 1'-0" x 1'-0" & depth upto 1'-3", consist of 3" thick Grade 15 concrete base and 4 1/2" thick brick masonry side walls in 1:3 cement sand mix , 1/2" thick cement rendering in 1:2 to internal & external exposed faces of walls finished smooth with neat cement floating, with 2" thick Grade 20 RCC cover slab with 6mm dia. M.S. rods @ 4" c/c both ways. Rate to include for excavation, necessary formwork , lifting hooks & 3" thick concrete pad as per Drawing No:- WSS/10/01	Nr.	3,310.00
U 02	Construction of waste water brick manhole internal size of 1'-3" x 1'-3" & depth upto 2'-0", consist of 3" thick Grade 15 concrete base and 4 1/2" thick brick masonry side walls in 1:3 cement sand mix , 1/2" thick cement rendering in 1:2 to internal & external exposed surfaces of walls finished smooth with neat cement floatings, with 2" thick Grade 20 RCC cover slab with 6mm dia. M.S. rods @ 4" c/c both ways. Rate to include for excavation, necessary formwork , lifting hooks & 3" thick concrete pad as per Drawing No:- WSS/10/01	Nr.	5,635.00
U 03	Construction of waste water brick manhole internal size of 1'-6" x 1'-6" & depth 2'-0"to 3'-0", consist of 3" thick Grade 15 concrete base and 4 1/2" thick brick masonry side walls in 1:3 cement sand mix , 1/2" thick cement rendering in 1:2 to internal & external exposed surfaces of walls finished smooth with neat cement floatings, with 3" thick Grade 20 RCC cover slab with 10mm dia. tor steel @ 6" c/c both ways. Rate to include for excavation, necessary formwork, lifting hooks & 6" thick concrete pad as per Drawing No:- WSS/10/01	Nr.	8,855.00
U 04	Construction of waste water brick manhole internal size of 2'-0" x 2'-0" & depth vary from 2'-0"-3'-0", consist of 4" thick Grade 15 concrete base and 9" thick brick masonry side walls in 1:3 cement sand mix ,1/2" thick cement sand rendering in 1:2 to all internal surfaces and external exposed surfaces of walls finished smooth with neat cement floating , with 3" thick Grade 20 RCC cover slab with 10mm dia. tor steel @ 6" c/c both ways.Rate to include for excavation, necessary formwork, lifting hooks and 6" thick concrete pad as per Drawing No:- WSS/10/01	Nr.	21,600.00
	<u>Waste Water Manhole - Concrete</u>		

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
U 05	Construction of waste water concrete manhole internal size of 1'-0" x 1'-0" & depth up to 1'-3", consist of 4" thick Grade 20 concrete base and sides ,with 2" thick Grade 20 RCC cover slab with 6mm dia.M.S. rods @ 4" c/c both ways. Rate to include for excavation, necessary formwork, lifting hooks and 1/2" thick cement sand rendering in 1:2 mix trowel smooth with neat grey cement to all internal surfaces and external exposed surfaces as per Drawing No:- WSS/10/02	Nr.	3,980.00
U 06	Construction of waste water concrete manhole internal size of 1'-3" x 1'-3" & depth up to 2'-0", consist of 4" thick Grade 20 concrete base and sides ,with 2" thick Grade 20 RCC cover slab with 6mm dia.M.S. rods @ 4" c/c both ways. Rate to include for excavation, necessary formwork, lifting hooks and 1/2" thick cement sand rendering in 1:2 mix trowel smooth with neat grey cement to all internal surfaces and external exposed surfaces as per Drawing No:- WSS/10/02	Nr.	5,405.00
U 07	Construction of waste water concrete manhole internal size of 1'-6" x 1'-6" & depth vary from 2'-0' - 3'-0", consist of 3" thick Grade 15 lean concrete & 5" thick Grade 20 RCC base and side walls with 10mm dia.tor steel @ 6" c/c both ways and 3" thick Grade 20 RCC cover slab with 10mm dia. tor steel @ 6" c/c both ways. Rate to include for excavation, necessary formwork, lifting hooks and 1/2" thick cement & sand rendering in 1:2 mix trowel smooth with neat grey cement to all internal surfaces and external exposed surfaces as per Drawing No:- WSS/10/02	Nr.	18,230.00
	<u>Sewer Manhole - Brick</u>		
U 08	Construction of brick sewer manhole internal size of 2'-1" x 1'-7" & depth vary from 1'-6" - 3'-0", consist of 6" thick Grade 15 lean concrete base and 9" thick brick masonry side walls in 1:3 cement sand mix ,with 3" thick Grade 20 RCC cover slab with 10mm dia.tor steel @ 6" c/c both ways.Rate to include for excavation, necessary formwork, lifting hooks, concrete pad and 1/2" thick cement & sand rendering in 1:2 mix trowel smooth with neat grey cement to all internal surfaces , exposed external surfaces and forming channel with 1:6 benching as per Drawing No:- WSS/10/03	Nr.	19,775.00
U 09	Construction of brick sewer manhole internal size of 2'-6" x 1'-7" & depth vary from 2'-0" - 3'-0", consist of 6" thick Grade 15 lean concrete base and 9" thick brick masonry side walls in 1:3 cement sand mix ,with 3" thick Grade 20 RCC cover slab with 10mm dia.tor steel @ 6" c/c both ways. Rate to include for excavation, necessary formwork, lifting hooks , concrete pad and 1/2" thick cement & sand rendering in 1:2 mix trowel smooth with neat grey cement to all internal surfaces , exposed external surfaces and forming channel with 1:6 benching as per Drawing No:- WSS/10/03	Nr.	24,190.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
U 10	Construction of brick sewer manhole internal size of 3'-4 1/2" x 2'-3" & depth vary from 2'-0" - 3'-0", consist of 6" thick Grade 15 lean concrete base and 9" thick brick masonry side walls in 1:3 cement sand mix ,with 3" thick Grade 20 RCC cover slab with 10mm dia.tor steel @ 6" c/c both ways.Rate to include for excavation, necessary formwork, lifting hooks , concrete pad and 1/2" thick cement & sand rendering in 1:2 mix trowel smooth with neat grey cement to all internal surfaces , exposed external surfaces and forming channel with 1:6 benching as per Drawing No:- WSS/10/04	Nr.	33,705.00
U 11	Construction of brick sewer manhole internal size of 4'-6" x 2'-7 1/2" & depth vary from 2'-0" - 3'-0", consist of 6" thick Grade 15 lean concrete base and 9" thick brick masonry side walls in 1:3 cement sand mix ,with 3" thick Grade 20 RCC cover slab with 10mm dia.tor steel @ 6" c/c both ways.Rate to include for excavation, necessary formwork, lifting hooks, concrete pad and 1/2" thick cement & sand rendering in 1:2 mix trowel smooth with neat grey cement to all internal surfaces , exposed external surfaces and forming channel with 1:6 benching as per Drawing No:- WSS/10/05	Nr.	43,480.00
U 12	Construction of brick sewer manhole internal size of 4'-6" x 2'-7 1/2" & depth vary from 3'-0" - 5'-0", consist of 6" thick Grade 15 lean concrete base and 9" thick brick masonry side walls in 1:3 cement sand mix ,with 3" thick Grade 20 RCC cover slab with 10mm dia.tor steel @ 6" c/c both ways.Rate to include for excavation, necessary formwork, lifting hooks, concrete pad and 1/2" thick cement & sand rendering in 1:2 mix trowel smooth with neat grey cement to all internal surfaces , exposed external surfaces and forming channel with 1:6 benching as per Drawing No:- WSS/10/05	Nr.	57,210.00
U 13	Construction of brick Interceptor manhole internal size 4'-6"x 2'-7 1/2" depth up to 5'-6" Consists of 3" thick grade 15 lean concrete & 6" thick Grade 20 concrete base , 9" thick brick masonry side walls in 1:3 cement sand mix ,with 3" thick Grade 20 RCC cover slab with 10mm dia.tor steel @ 6" c/c both ways.Rate to include for excavation, necessary formwork, lifting hooks concrete pad and 1/2" thick cement & sand rendering in 1:2 mix trowel smooth with neat grey cement to all internal surfaces , exposed external surfaces including interceptor with stopper and forming channels with 1:6 benching including working spaces as per Drawing No:- WSS/10/06	Nr.	76,935.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
U 14	Construction of brick drop manhole internal size 4'-6"x 2'-7 1/2" and depth up to 5'-0", Consists of 6" thick Grade 20 concrete base with 10mm dia. tor steel @ 8" c/c bothways on 3"thick Grade 15 lean concrete and 9" thick brick masonry side walls in 1:3 cement sand mix ,with 3" thick Grade 20 RCC cover slab with 10mm dia. tor steel @ 6" c/c both ways. Rate to include for excavation, necessary formwork, lifting hooks , concrete pad and 1/2" thick cement & sand rendering in 1:2 mix trowel smooth with neat grey cement to all internal surfaces , exposed external surfaces and forming channels with 1:6 benching including P.V.C. specials , M.S. foot steps & working spaces as per Drawing No:- WSS/10/07	Nr.	59,990.00
U 15	Construction of brick drop manhole internal size 4'-6"x 2'-7 1/2" and depth vary from 5'-0" - 10'-0", Consists of 6" thick Grade 20 concrete base with 10mm dia. tor steel @ 8" c/c bothways on 3"thick Grade 15lean concrete and 9" thick brick masonry side walls in 1:3 cement sand mix ,with 3" thick Grade 20 RCC cover slab with 10mm dia.tor steel @ 6" c/c both ways.Rate to include for excavation, necessary formwork, lifting hooks , concrete pad and 1/2" thick cement & sand rendering in 1:2 mix trowel smooth with neat grey cement to all internal surfaces , exposed external surfaces and forming channel with 1:6 benching including P.V.C. specials, M.S. foot step & working spaceas per Drawing No:- WSS/10/07	Nr.	94,290.00
	<u>Sewer Manhole - Concrete</u>		
U 16	Construction of RCC sewer manhole internal size of 2'-1" x 1'-7" & depth up to 2'-0", consist of 2" thick Grade 15 lean concrete and 6" thick Grade 20 concrete base and side walls r/f with 10mm dia. tor steel @ 8" c/c bothways , with 3" thick Grade 20 RCC cover slab with 10mm dia.tor steel @ 6" c/c both ways.Rate to include for excavation, necessary formwork, lifting hooks and 1/2" thick cement & sand rendering in 1:2 mix trowel smooth with neat grey cement to all internal surfaces , exposed external surfaces and forming channel with 1:6 benching.as per Drawing No:- WSS/10/08	Nr.	23,975.00
U 17	Construction of RCC sewer manhole internal size of 2'-6" x 1'-7" & depth vary from 2'-0" - 3'-0" , consist of 2" thick Grade 15 lean concrete and 6" thick Grade 20 concrete base and side walls r/f with 10mm dia. tor steel @ 8" c/c bothways , with 3" thick Grade 20 RCC cover slab with 10mm dia.tor steel @ 6" c/c both ways. Rate to include for excavation, necessary formwork, lifting hooks and 1/2" thick cement , sand rendering in 1:2 mix trowel smooth with neat grey cement to all internal surfaces , exposed external surfaces and forming channel with 1:6 benching as per Drawing No:- WSS/10/08	Nr.	28,065.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
U 18	Construction of RCC sewer manhole internal size of 3'-4 1/2" x 2'-3" & depth vary from 2'-0" - 3'-0" , consist of 2" thick Grade 15 lean concrete and 6" thick Grade 20 concrete base and side walls r/f with 10mm dia. tor steel @ 8" c/c bothways , with 3" thick Grade 20 RCC cover slab with 10mm dia.tor steel @ 6" c/c both ways.Rate to include for excavation, necessary formwork, lifting hooks and 1/2" thick cement , sand rendering in 1:2 mix trowel smooth with neat grey cement to all internal surfaces , exposed external surfaces and forming channel with 1:6 benching as per Drawing No:- WSS/10/09	Nr.	42,630.00
U 19	Construction of RCC sewer manhole internal size of 4'-6" x 2'-7 1/2" & depth vary from 2'-0" - 3'-0" , consist of 2" thick Grade 15 lean concrete and 6" thick Grade 20 concrete base and side walls r/f with 10mm dia. tor steel @ 8" c/c bothways , with 3" thick Grade 20 RCC cover slab with 10mm dia.tor steel @ 6" c/c both ways.Rate to include for excavation, necessary formwork, lifting hooks and 1/2" thick cement & sand rendering in 1:2 mix trowel smooth with neat grey cement to all internal surfaces , exposed external surfaces and forming channel with 1:6 benching as per Drawing No:- WSS/10/08	Nr.	53,605.00
U 20	Construction of RCC sewer manhole internal size of 4'-6" x 2'-7 1/2" & depth vary from 3'-0" - 5'-0" , consist of 2" thick Grade 15 lean concrete and 6" thick Grade 20 concrete base and side walls r/f with 10mm dia. tor steel @ 8" c/c bothways , with 3" thick Grade 20 RCC cover slab with 10mm dia.tor steel @ 6" c/c both ways.Rate to include for excavation, necessary formwork, lifting hooks and 1/2" thick cement , sand rendering in 1:2 mix trowel smooth with neat grey cement to all internal surfaces , exposed external surfaces and forming channel with 1:6 benching as per Drawing No:- WSS/10/10	Nr.	72,510.00
	<u>Manhole Covers</u>		
U 21	RCC Manhole cover size of 2'-0" x 2'-0" approx. & 3" thick Consist of 1:2:4(3/4") concrete & 10mm dia. Tor steel bars @ 6" C/C both ways. Rate include necessary formwork and lifting hooks.	Sq.ft.	575.00
U 22	Supplying & fixing heavy duty Cast Iron manhole cover size of 24" x 18" including cover frame.	Nr.	10,490.00
	<u>Gulleys</u>		
U 23	Gulley S.W. 4" supplied and fixed including 1:2:4(3/4")concrete gully box.	Nr.	1,035.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
U 24	Construction of gully internal size of 1'-2" x 1'-2" & depth up to 1'-4" , consist of 3" thick Grade 20 concrete base and 4 1/2" thick brick masonry side walls in 1:3 cement sand mix , with 2" thick Grade 20 RCC cover slab with 6mm dia.M S rods @ 4" c/c both ways.Rate to include for excavation, necessary formwork, lifting hooks,,supplying P.V.C.gully trap infill with grade 20 concrete and 1/2" thick cement & sand rendering in 1:2 mix trowel smooth with neat grey cement to all internal surfaces , exposed external surfaces and forming channel with 1:6 benching as per Drawing No:-WSS/10/11	Nr.	6,025.00
	<u>Soakage Pits</u>		
U 25	Construction of 4'-0" dia. soakage pit in hard soil including necessary excavation all complete as per Drawing No:- WSS/SP/01.	Nr.	40,990.00
U 26	Construction of 6'-0" dia. soakage pit in hard soil including necessary excavation all complete as per Drawing No:- WSS/SP/02.	Nr.	74,515.00
U 27	Construction of 8'-0" dia. soakage pit in hard soil including necessary excavation all complete as per Drawing No:- WSS/SP/03.	Nr.	105,510.00
U 28	Construction of 4'-0" dia. soakage pit in loose soil including necessary excavation all complete as per Drawing No:- WSS/SP/04.	Nr.	107,065.00
U 29	Construction of 6'-0" dia. soakage pit in loose soil including necessary excavation all complete as per Drawing No:- WSS/SP/05.	Nr.	165,940.00
U 30	Construction of 8'-0" dia. soakage pit in loose soil including necessary excavation all complete as per Drawing No:- WSS/SP/06.	Nr.	225,275.00
	<u>Septic tanks</u>		
U 31	Construction of 30 person Septic tank (Brick) including necessary excavation all complete as per Drawing No:- WSS/ST/01.	Nr.	205,420.00
U 32	Construction of 50 person Septic tank (Brick) including necessary excavation all complete as per Drawing No:- WSS/ST/01.	Nr.	239,625.00
U 33	Construction of 70 person Septic tank (Brick) including necessary excavation all complete as per Drawing No:- WSS/ST/01.	Nr.	268,645.00
U 34	Construction of 100 person Septic tank (Brick) including necessary excavation all complete as per Drawing No:- WSS/ST/01.	Nr.	327,570.00
U 35	Construction of 150 person Septic tank (Brick) including necessary excavation all complete as per Drawing No:- WSS/ST/02.	Nr.	425,130.00
U 36	Construction of 100 person RCC Septic tank soil including necessary excavation all complete as per Drawing No:-WSS/ST/03.	Nr.	575,545.00
U 37	Construction of 150 person RCC Septic tank soil including necessary excavation all complete as per Drawing No:- WSS/ST/04.	Nr.	722,345.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
U 38	Supplying and fixing 4'-0" dia.x 8'-0" Pre-cast Septic tank manufactured by "SEC" or approved equivalent including excavation depth not exceeding 8'-0" and sand fill upto 2'-0" hight surrounding the tank. Rate shall include hire charges of boomtruck for placing and subject to specific approval by the Divisional Engineer.	Nr.	103,860.00
U 39	Supplying and fixing 3'-0" internal dia.x 4'-0" depth & 3" thick walls, Pre-cast Soakage pit with perporated holes manufactured by "SEC" or approved equivalent including necessary excavation including working space and 6" thick rubble packing surrounding the tank. Rate shall include hire charges of boomtruck for placing and subject to specific approval by the Divisional Engineer.	Nr.	49,825.00
	<u>V - ELECTRICAL INSTALLATION.</u>		
	<u>Note:</u>		
	Work shall be done in accordance with specifications for electrical and mechanical works - ICTAD Publication No.SCA/8 of Aug.2000(2nd Edition -Revised)		
1	Internal light wiring shall comply with the drawings and shall be in 230/440 volt single core PVC insulated copper cables		
2	All switches and socket outlets shall be plated type make"Clipsal", "Orange X₅", "Krypton" or any other approved equivalent complying to SLS1000:1993 for switches & SLS 1998 : 1991 for socket outlets .		
3	All Fluorescent fittings shall be zinc coated steel sheet finished with powder coated to 0.45mm thickness complete with electronic choke (Make:-"Atco","BG" original or -Equivalent) starter and the tube should be Thron, Philips, or Osram		
4	Rate to include switch boxes, Rowl plugs, square pin plug base, Chromium plated M.S. chains, brass hooks, ceiling roses, holders and any other item necessary.		
5	All distribution boards should be incorporated with multi 9, Orange Industrial, Merlin Gerin, , Hager, Moeller/EATON, clipsal, SIEMENS make MCB's (Miniature circuit Breaker) and cabtree, Clipsal ,Orange Industrial 10 kA, LS , Merlin Gerin,Schinieider make R.C.C.B.'s (Residual Current circuit Breaker) and Schinieider, Merlin Gerin, , Dormans Smith ,Orange Industrial (10K), Biticano , Clockner moeller make M.C.C.B.'s (Moulded Case Circuit Breakers)		-
6	The whole installation shall be carried out according to CEB/IEE wiring regulations.		

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
7	All the M.C.C.B.'s, MCB's and RCCB's for the distribution boards should be purchased from the following authorized agents or from their dealers and a certificate or invoice along with their Company seal and Part No., numbers and warranty should be produced at the time of payment.		
	All MCB, RCCB, shall have 20 Years warranty and hence products which comes with 20 years warranty are permitted.		
	All MCCB shall have 2 Years warranty and hence products which comes with 2 years warranty are permitted.		
	1.M.C.C.B.'s-Merlin Gerin brand - Figaro Ltd. Schnieider brand - Schinder Electrical Lanka PVT LTD Moeller/EATON brand - Richardson - Electrical (Pvt) Ltd. Orange Industrial brand, LS brand - Orel Corporation(Pvt) Ltd.		
	2. M.C.B.'s- SIEMENS brand - RotexLtd. Orange Industrial brand (10 K) - Orel Corporation(Pvt) Ltd. Moeller/EATON brand - Richardson - Electrical (Pvt) Ltd.		
	3. R.C.C.B - Schnieider brand - Schinder Electrical Lanka Pvt Ltd. Cabtree brand - Nawaloka Ltd. Moeller/EATON brand - Richardson -Electrical (Pvt) Ltd. OrangeIndustrial brand - Orel Corporation(Pvt) Ltd.		
	All socket and switches shall have 20 Years warranty and hence products which comes with 20 years warranty are permitted.		
	4. Switches and Socket outlet - Orange Industrial brand Orel Corporation(Pvt) Ltd. Krypton brand Central Industries PLC.		
	5. Powder coated Steel Enclosures - Rotex Ltd./ Marline Ltd. / Figaro Ltd./MSS(Pvt) Ltd , Orel Corporation(Pvt) Ltd.		
	6.Lighting Fittings - Rates for light fittings are based on products available at Myland Marketing, 18, Devos Avenue, Colombo - 04 & Orel Corporation (Pvt) Ltd, 49,Sri Jinarathana Road, Colombu 02, Sri Lanka. Any product with comparable shapes, material properties and warranties are acceptable		
	All Lighting Fittings shall have 2 Years warranty including bulb and hence products which comes with 2 Years warranty are permitted.		
8	The height of the light bracket from floor level is 2.5m		
9	Height of the switches from floor level is 1.5m		
10	No ceiling fan should be installed at a height of less than 2.7m from floor level		

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
11	The distance of a light source from the wall should be equal to one half the distance between two adjacent light sources and also the distance between light fittings should not exceed 1.5 times the Mounting height.		
12	Point wiring only with and including switches (Rate includes wiring from MCB through switch to lamp point and includes the switch, switch box, lamp holder wire and conduit)		
13	Point wiring only with and including Socket (Rate includes wiring from MCB to the Socket, socket box, and conduit)		
14	In case the cable length of wiring point exceed 80 feet refer item V59 & V 81 for payment of additional length.		
	<u>POINT WIRING WITHOUT EARTHWIRE.</u>		
	Items V 01 - V 20 shall be used for light point wiring with Non-Metal casing lamp fittings.		
V 01	Light point wired through a 10 Amp one gang one way plate switch using 2x1/1.13mm(2x1/044) P.V.C. insulated copper wire in fully concealed/surface P.V.C. conduits.	Per Point	1,965.00
V 02	Light points wired through a 10 Amp two gang one way plate switch using 2x1/1.13mm(2x1/044) P.V.C. insulated copper wire in fully concealed/surface P.V.C. conduits.	Per Point	2,485.00
V 03	Light points wired through a 10 Amp three gang one way plate switch using 2x1/1.13mm(2x1/044) P.V.C. insulated copper wire in fully concealed/surface P.V.C. conduits.	Per Point	3,010.00
V 04	Light points wired through a 10 Amp four gang one way plate switch using 2x1/1.13mm (2x1/044) P.V.C. insulated copper wire in fully concealed/surface P.V.C. conduits.	Per Point	3,535.00
V 05	Light points-wired through a 10 Amp five gang one way plate switch using 2x1/1.13mm(2x1/044) P.V.C. insulated copper wire in fully concealed/surface P.V.C. conduits.	Per Point	4,050.00
V 06	Light point wired through a 10 Amp one gang one way plate switch using 2x1/1.13mm(2x1/044) P.V.C. insulated copper wire in fully surface plastic casing and capping.	Per Point	3,010.00
V 07	Light points wired through a 10 Amp two gang one way plate switch using 2x1/1.13mm(2x1/044) P.V.C. insulated copper wire in fully surface plastic casing and capping.	Per Point	3,780.00
V 08	Light points wired through a 10 Amp three gang one way plate switch using 2x1/1.13mm(2x1/044) P.V.C. insulated copper wire in fully surface plastic casing and capping.	Per Point	4,550.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
V 09	Light points wired through a 10 Amp four gang one way plate switch using 2x1/1.13mm(2x1/044) P.V.C. insulated copper wire in fully surface plastic casing and capping.	Per Point	5,325.00
V 10	Light points wired through a 10 Amp. five gang one way plate switch using 2x1/1.13mm(2x1/044) P.V.C. insulated copper wire in fully surface plastic casing and capping.	Per Point	6,090.00
V 11	Light point wired through a 10 Amp one gang one way plate switch using 2x1/1.13mm(2x1/044)P.V.C. insulated copper wire first half in surface plastic casing & capping and other half in conduit.	Per Point	2,635.00
V 12	Light points wired through a 10 Amp two gang one way using 2x1/1.13mm(2x1/044)P.V.C. insulated copper wire first half in surface plastic casing & capping and other half in conduit.	Per Point	3,280.00
V 13	Light points wired through a 10 Amp three gang one way using 2x1/1.13mm(2x1/044)P.V.C. insulated copper wire first half in surface plastic casing & capping and other half in conduit.	Per Point	3,930.00
V 14	Light points wired through a 10 Amp four gang one way plate switch using 2x1/1.13mm(2x1/044)P.V.C. insulated copper wire first half in surface plastic casing & capping and other half in conduit.	Per Point	4,580.00
V 15	Light points wired through a 10 Amp. five gang one way plate switch using 2x1/1.13mm(2x1/044)P.V.C. insulated copper wire first half in surface plastic casing & capping and other half in conduit.	Per Point	5,220.00
V 16	Light point wired through a 10 Amp one gang two way plate switch using 2x1/1.13mm(2x1/044) P.V.C. insulated copper wire in fully concealed/surface P.V.C. conduits.	Per Point	2,440.00
V 17	Light point wired through a 10 Amp one gang two way plate switch using 2x1/1.13mm(2x1/044) P.V.C. insulated copper wire in fully surface plastic casing and capping.	Per Point	3,485.00
V 18	Light point wired through a 10 Amp one gang two way plate switch using 2x1/1.13mm(2x1/044)P.V.C. insulated copper wire first half in surface plastic casing & capping and other half in conduit.	Per Point	3,110.00
V 19	Electric Bell with Bell press switch using 2x1/1.13mm (2x1.044) PVC/insulated copper wire in fully concealed/ surface PVC conduits.	Per Point	2,910.00
V 20	Electric Bell with bell press switch using flexible wire (twisted twin wire) in fully surface plastic casing and capping. only in the table legs and floor crossings.	Nr.	3,055.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
	<u>POINT WIRING WITH EARTHWIRE.</u>		
	Items V 21 - V 40 shall be used for light point wiring for lamp fittings with metal enclosed which has to be earthed.		
V 21	Light point wired through a 10Amp one gang one way plate switch using 2x1/1.13mm(2x1/044) P.V.C. insulated copper wire & 1x7/0.67 P.V.C. insulated copper earth wire in fully concealed/surface P.V.C. conduits.	Per Point	2,980.00
V 22	Light point wired through a 10Amp two gang one way plate switch using 2x1/1.13mm(2x1/044) P.V.C. insulated copper wire & 1x7/0.67 P.V.C. insulated copper earth wire in fully concealed/surface P.V.C. conduits.	Per Point	3,840.00
V 23	Light point wired through a 10 Amp three gang one way plate switch using 2x1/1.13mm(2x1/044) P.V.C. insulated copper wire & 1x7/0.67 P.V.C. insulated copper earth wire in fully concealed/surface P.V.C. conduits.	Per Point	4,695.00
V 24	Light point wired through a 10 Amp four gang one way plate switch using 2x1/1.13mm(2x1/044) P.V.C. insulated copper wire & 1x7/0.67 P.V.C. insulated copper earth wire in fully concealed/surface P.V.C. conduits.	Per Point	5,560.00
V 25	Light point wired through a 10 Amp five gang one way plate switch using 2x1/1.13mm(2x1/044) P.V.C. insulated copper wire & 1x7/0.67 P.V.C. insulated copper earth wire in fully concealed/surface P.V.C. conduits.	Per Point	6,410.00
V 26	Light point wired through a 10 Amp one gang one way plate switch using 2x1/1.13mm(2x1/044) P.V.C. insulated copper wire & 1x7/0.67 P.V.C. insulated copper earth wire in fully surface plastic casing and capping.	Per Point	4,000.00
V 27	Light point wired through a 10 Amp two gang one way plate switch using 2x1/1.13mm(2x1/044) P.V.C. insulated copper wire & 1x7/0.67 P.V.C. insulated copper earth wire in fully surface plastic casing and capping.	Per Point	5,100.00
V 28	Light point wired through a 10 Amp three gang one way plate switch using 2x1/1.13mm(2x1/044) P.V.C. insulated copper wire & 1x7/0.67 P.V.C. insulated copper earth wire in fully surface plastic casing and capping.	Per Point	6,200.00
V 29	Light point wired through a 10 Amp four gang one way plate switch using 2x1/1.13mm(2x1/044) P.V.C. insulated copper wire & 1x7/0.67 P.V.C. insulated copper earth wire in fully surface plastic casing and capping.	Per Point	7,310.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
V 30	Light point wired through a 10 Amp five gang one way plate switch using 2x1/1.13mm(2x1/044) P.V.C. insulated copper wire & 1x7/0.67 P.V.C. insulated copper earth wire in fully surface plastic casing and capping.	Per Point	8,400.00
V 31	Light point wired through a 10 Amp one gang one way plate switch using 2x1/1.13mm(2x1/044) P.V.C. insulated copper wire & 1x7/0.67 P.V.C. insulated copper earth wire first half in surface plastic casing & capping and other half in conduit.	Per Point	3,640.00
V 32	Light point wired through a 10 Amp two gang one way plate switch using 2x1/1.13mm(2x1/044) P.V.C. insulated copper wire & 1x7/0.67 P.V.C. insulated copper earth wire first half in surface plastic casing & capping and other half in conduit.	Per Point	4,620.00
V 33	Light point wired through a 10 Amp three gang one way plate switch using 2x1/1.13mm(2x1/044) P.V.C. insulated copper wire & 1x7/0.67 P.V.C. insulated copper earth wire first half in surface plastic casing & capping and other half in conduit.	Per Point	5,600.00
V 34	Light point wired through a 10 Amp four gang one way plate switch using 2x1/1.13mm(2x1/044) P.V.C. insulated copper wire & 1x7/0.67 P.V.C. insulated copper earth wire first half in surface plastic casing & capping and other half in conduit.	Per Point	6,585.00
V 35	Light point wired through a 10 Amp five gang one way plate switch using 2x1/1.13mm(2x1/044) P.V.C. insulated copper wire & 1x7/0.67 P.V.C. insulated copper earth wire first half in surface plastic casing & capping and other half in conduit.	Per Point	7,555.00
V 36	Light point wired through a 10 Amp one gang two way plate switch using 2x1/1.13mm(2x1/044) P.V.C. insulated copper wire & 1x7/0.67 P.V.C. insulated copper earth wire in fully concealed/surface P.V.C. conduits.	Per Point	3,520.00
V 37	Light point wired through a 10 Amp one gang two way plate switch using 2x1/1.13mm(2x1/044) P.V.C. insulated copper wire & 1x7/0.67 P.V.C. insulated copper earth wire in fully surface plastic casing and capping.	Per Point	4,570.00
V 38	Light point wired through a 10 Amp one gang two way plate switch using 2x1/1.13mm(2x1/044) P.V.C. insulated copper wire & 1x7/0.67 P.V.C. insulated copper earth wire first half in surface plastic casing & capping and other half in conduit.	Per Point	4,195.00
V 39	Electric Bell with Bell press switch using 2x1/1.13mm (2x1.044) P.V.C. insulated copper wire & 1x7/0.67 P.V.C. insulated copper earth wire in fully concealed/surface P.V.C. conduits.	Per Point	4,000.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
V 40	Electric Bell with Bell press switch using 2x1/1.13mm (2x1.044) P.V.C. insulated copper wire & 1x7/0.67 P.V.C. insulated copper earth wire in fully surface plastic casing and capping.	Per Point	4,745.00
	<u>SWITCH SOCKET WIRING (V 20 - V 24)</u>		
V 41	Flush mounted 13 Amp switch socket outlet wired using 2x7/0.67(2x7/.029) insulated copper wire & 1x7/0.67(7/.029) copper earth wire in fully concealed/surface P.V.C. conduits.(Each Radial Circuit feed 4 nos. of sockets as per drawing no. ELE/ST/05)	Nr.	2,690.00
V 42	Flush mounted 13 Amp switch socket outlet wired using 2x7/0.67(2x7/.029) insulated copper wire & 1x7/0.67(7/.029) copper earth wire in fully surface plastic casing and capping..(Each Radial Circuit feed 4 nos. of sockets as per drawing no. ELE/ST/05)	Nr.	3,050.00
V 43	Flush mounted 15 Amp switch socket outlet wired using 2x7/0.67(2x7/029) insulated copper wire & 1x7/0.67(7/029) copper earth wire in fully concealed/surface P.V.C. conduits.	Nr.	4,625.00
V 44	Flush mounted 15 Amp switch socket outlet wired using 2x7/0.67(2x7/029) insulated copper wire & 1x7/0.67(7/029) copper earth wire in surface plastic casing and capping.	Nr.	5,210.00
V 45	Flush mounted 13 Amp. non-reversible type square pin switched socket outlets wired in ring circuit using 4x1x7/0.67 PVC insulated copper wire & 2x7/0.67 PVC insulated copper earth wire in casing and capping (As per drawing no. ELE/ST/06) .	Nr.	Rate as following formula
	$R = \frac{600}{L} \times L + \frac{450}{N} \times N$		
	N		
	R = Rate per circuit (to be calculated as per formula.		
	L = Distance from DB to last socket (in Meter)		
	N = Number of 13 Amp. sockets		
	<u>Rate for items V 46 - V 53 shall include the cost of wiring, regulator, fan hook & other accessories. For regulator shall be a three star energy.</u>		
V 46	Fan regulator wired without a switch using 2x1/1.13 mm P.V.C. insulated copper wire & 1x7/0.67 P.V.C. insulated copper earth wire in fully concealed/surface P.V.C. conduits.	Nr.	3,285.00
V 47	Fan regulator wired through a 5 Amp plate one gang one way switch using 2x1/1.13 mm P.V.C. insulated copper wire & 1x7/0.67 P.V.C. insulated copper earth wire in fully concealed/surface P.V.C.conduits.	Nr.	3,460.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
V 48	Fan regulator wired without a switch using 2x1/1.13 mm P.V.C. insulated copper wire & 1x7/0.67 P.V.C. insulated copper earth wire in fully surface plastic casing and capping.	Nr.	4,470.00
V 49	Fan regulator wired through a 5 Amp plate one gang one way switch using 2x1/1.13 mm P.V.C. insulated copper wire & 1x7/0.67 P.V.C. insulated copper earth wire in fully surface plastic casing and capping	Nr.	4,640.00
V 50	Fan regulator wired without a switch using 2x1/1.13 mm P.V.C. insulated copper wire & 1x7/0.67 P.V.C. insulated copper earth wire in half surface with plastic casing and capping and other half in conduit.	Nr.	3,875.00
V 51	Fan regulator wired through a 5 Amp plate one gang one way switch using 2x1/1.13 mm P.V.C. insulated copper wire & 1x7/0.67 P.V.C. insulated copper earth wire in half surface with plastic casing and capping and other half in conduit.	Nr.	4,050.00
V 52	Two Fan regulator wired through a 5Amp plate two gang one way switch using 2x1/1.13 mm P.V.C. insulated copper wire & 1x7/0.67 P.V.C. insulated copper earth wire in fully concealed/ surface PVC conduit	Nr.	4,625.00
V 53	Three Fan regulator wired through a 5Amp plate three gang one way switch using 2x1/1.13 mm P.V.C. insulated copper wire & 1x7/0.67 P.V.C. insulated copper earth wire in fully concealed/ surface PVC conduit	Nr.	6,235.00
	<u>Supply & install only the following V 54 - V 58</u>		
V 54	Ceiling fan of 56" Sweep KDK- brand (MRG-model) with Air flow rate of 225 cu.m /min @ RPM 270 with tolerance as per SLS 814 and three star energy label as PER SLS 1600 (This item shall be specific requirements)	Nr.	9,800.00
V 55	Ceiling fan of 56" Sweep with Air flow of 225 cu.m /min @ RPM 270 with tolerance as per SLS 814 and three star energy label as per SLS 1600.		8,090.00
V 56	Dimmer type fan regulator with a switch (Orange or equivalent)	Nr.	1,140.00
V 57	Exhaust fan 12" dia. - (K.D.K. or approved equivalent)	Nr.	11,285.00
V 58	Wall mounted fan - (K.D.K. or approved equivalent)	Nr.	12,765.00
V 59	Supply & Fixing heavy duty 3/4" dia. x 1.8 mm thick GI pipes to extend the ceiling fan rod with applying 2 coats of anti-corrosive paint and one coat of enamel paint.	L.ft.	145.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
V 60	Supply & Fixing heavy duty 1" dia. x 1.8 mm thick GI pipes to extend the ceiling fan rod with applying 2 coats of anti-corrosive paint and one coat of enamel paint.	L.ft.	180.00
	<u>CABLE WIRING.</u>		
V 61	Supplying and wiring 2 x 2.5mm ² (7/.029") PVC/PVC/Cu cable + 2.5mm ² (7/.029) earth wire to working order excluding conduit.	L.ft.	105.00
V 62	Supplying and wiring 2 x 4mm ² (7/.036") PVC/PVC/Cu cable + 4mm ² (7/.036) earth wire to working order excluding conduit.	L.ft.	153.00
V 63	Supplying and wiring 4 x 4mm ² (7/.036") PVC/PVC/Cu cable + 4mm ² (7/.036) earth wire to working order excluding conduit.	L.ft.	245.00
V 64	Supplying and wiring 2 x 6mm ² (7/.044") PVC/PVC/ Cu cable + 6mm ² (7/.044") earth wire complete to working order excluding conduit/casing	L.ft.	213.00
V 65	Supplying and wiring 2 x 6mm ² (7/.044") PVC/PVC/ Cu cable complete to working order excluding conduit/casing	L.ft.	163.00
V 66	Supplying and wiring 4 x 6mm ² (7/.044") PVC/PVC/ Cu cable + 6mm ² (7/.044") earth wire complete to working order excluding conduit/casing	L.ft.	340.00
V 67	Supplying and wiring 2 x 10mm ² (7/.052") PVC/PVC/ Cu cable + 10mm ² (7/.052") earth wire complete to working order excluding conduit/casing	L.ft.	334.00
V 68	Supplying and wiring 4 x 10mm ² (7/.052") PVC/PVC/ Cu cable + 10mm ² (7/.052") earth wire complete to working order excluding conduit/casing	L.ft.	522.00
V 69	Supplying and wiring 4 x 10 mm ² (7/.052") PVC/PVC/ Cu cable complete to working order excluding conduit/casing	L.ft.	430.00
V 70	Supplying and wiring 2 x 16mm ² (7/.064") PVC/PVC/ Cu cable + 16mm ² (7/.064") earth wire complete to working order excluding conduit/casing	L.ft.	485.00
V 71	Supplying and wiring 4 x 16mm ² (7/0.064") PVC/PVC/ Cu cable + 16mm ² (7/.064") earth wire complete to working order excluding conduit/casing	L.ft.	780.00
V 72	Supplying and wiring 4 x 16mm ² (7/0.064") PVC/PVC/ Cu cable complete to working order excluding conduit/casing		635.00
V 73	Supplying and wiring 2 x 25mm ² PVC/PVC/Cu cable + 16 mm ² earth wire complete to working order excluding conduit/casing.	L.ft.	672.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
V 74	Supplying and wiring 4 x 25mm ² PVC/PVC/Cu cable + 16 mm ² earth wire complete to working order excluding conduit/casing.	L.ft.	1,135.00
V 75	Supplying and wiring 4 x 25mm ² PVC/PVC/Cu cable complete to working order excluding conduit/casing.		975.00
V 76	Supplying and wiring 4 x 35mm ² PVC/PVC/Cu cable + 16 mm ² earth wire complete to working order excluding conduit/casing.	L.ft.	1,505.00
V 77	Supplying and wiring 4 x 35mm ² PVC/PVC/Cu cable complete to working order excluding conduit/casing.	L.ft.	1,375.00
V 78	Supplying and wiring 4 x 50mm ² PVC/PVC/Cu cable + 25 mm ² earth wire complete to working order excluding conduit/casing.	L.ft.	2,010.00
V 79	Supplying and wiring 4 x 50mm ² PVC/PVC/Cu cable complete to working order excluding conduit/casing.	L.ft.	1,745.00
V 80	Supplying and wiring 4 x 70mm ² PVC/PVC/Cu cable +35 mm ² earth wire complete to working order excluding conduit/casing.	L.ft.	3,400.00
V 81	Supplying and wiring 4 x 70mm ² PVC/PVC/Cu cable complete to working order excluding conduit/casing.	L.ft.	2,795.00
V 82	Supplying and wiring 4 x 95mm ² PVC/PVC/Cu cable + 50 mm ² earth wire complete to working order excluding conduit/casing.	L.ft.	3,910.00
V 83	Supplying and wiring 4 x 95mm ² PVC/PVC/Cu cable compete to working order excluding conduit/casing.	L.ft.	3,495.00
V 84	Supplying and wiring 4 x 120mm ² PVC/PVC/Cu cable + 70 mm ² earth wire complete to working order excluding conduit/casing.	L.ft.	5,370.00
V 85	Supplying and wiring 4 x 120mm ² PVC/PVC/Cu cable complete to working order excluding conduit/casing.	L.ft.	4,762.00
V 86	Supplying and fixing 2 core flexible (0.5mm ²) .	L.ft.	29.00
V 87	Supplying and wiring 2.5mm ² (7/.029") earth wire complete to working order excluding conduit/casing.	L.ft.	36.00
V 88	Supplying and wiring 6 mm ² (7/.044") earth wire complete to working order excluding conduit/casing.	L.ft.	66.00
V 89	Supplying and wiring 10 mm ² (7/.052") earth wire complete to working order excluding conduit/casing.	L.ft.	99.00
V 90	Supplying and wiring 16 mm ² (7/.064") earth wire complete to working order excluding conduit/casing.	L.ft.	145.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
V 91	Supplying and wiring 1mm ² (1/.044") PVC/PVC/ Cu twin wire complete to working order excluding conduit/casing.	L.ft.	35.00
V 92	Supplying and wiring 2.5mm ² (7/.029") PVC/PVC Cu twin wire complete to working order excluding conduit/casing.	L.ft.	75.00
V 93	Supplying and wiring with 4mm ² (7/.036") PVC/PVC/Cu twin wire complete to working order excluding conduit/casing.	L.ft.	108.00
V 94	Supplying and wiring with 2 x 4mm ² (7/.036") PVC/PVC/Cu cable + 4mm ² (7/.036) earth wire complete to working order excluding conduit/casing.	L.ft.	152.00
V 95	Supplying and wiring with 4 x 4mm ² (7/.036") PVC/PVC/Cu cable + 4mm ² (7/.036) earth wire complete to working order excluding conduit/casing.	L.ft.	238.00
V 96	Supplying and wiring with 4 x 2.5mm ² (7/.029") PVC/PVC/Cu cable + 2.5mm ² (7/.036) earth wire complete to working order excluding conduit/casing.	L.ft.	165.00
V 97	3/4" - 1" PVC conduits laying in the slab including placing binding wire to draw through conduits.	L.ft.	41.00
V 98	Supplying and fixing 3/4" PVC conduit including clips.	L.ft.	33.00
V 99	Supplying and fixing 1" PVC conduit including clips.	L.ft.	37.00
V 100	Supplying and fixing 1 1/4" dia. PVC conduit pipe	L.ft.	52.00
V 101	Supplying and fixing 1 1/2" dia. PVC conduit pipe	L.ft.	64.00
V 102	Supplying and fixing 2" dia. PVC conduit pipe	L.ft.	73.00
V 103	Supplying and fixing 1" - 1 1/2" dia. type 400 PVC pipe including clips.	L.ft.	98.00
V 104	Supplying and fixing 2" dia. type 400 PVC pipe including clips.	L.ft.	164.00
V 105	Supplying and fixing 3" dia. type 400 PVC pipe including clips.	L.ft.	245.00
V 106	Supplying and fixing 3/4" dia. PVC conduit bend	Nr.	31.00
V 107	Supplying and fixing 1" dia. PVC conduit bend	Nr.	34.00
V 108	Supplying and fixing 1 1/4" dia. PVC conduit bend	Nr.	60.00
V 109	Supplying and fixing 1 1/2" dia. PVC conduit bend	Nr.	80.00
V 110	Supplying and fixing 2" dia. PVC conduit bend	Nr.	115.00
V 111	Supplying and fixing 3/4" or 1" PVC conduit junction box.	Nr.	35.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
V 112	Supplying and fixing 1" PVC casing	L.ft.	54.00
V 113	Supplying and fixing 1 1/4" PVC casing	L.ft.	55.00
V 114	Supplying and fixing 1 1/2" PVC casing	L.ft.	73.00
V 115	Supplying and fixing 2" PVC casing	L.ft.	80.00
V 116	Supplying and fixing 2"x 2: box casing. PVC casing	L.ft.	120.00
	<u>Supply and installation of distribution board</u>		
	<u>Plastic encloser</u>		
V 117	1-4 ways SP&N or TP & N Distribution Board with thermo plastic frame and door, earth and neutral bars din rail type (protection rating IP40)	Nr.	2,245.00
V 118	8-10 ways SP&N or TP & N Distribution board with thermo plastic frame and door, earth and neutral bars din rail type (protection rating IP40)	Nr.	2,527.00
V 119	10-12 ways SP&N or TP & N Distribution board with thermo plastic frame and door, earth and neutral bars din rail type (protection rating IP40)	Nr.	2,636.00
V 120	12-14 ways SP&N or TP & N distribution board with thermo plastic frame and door, earth and neutral bars din rail type (protection rating IP40)	Nr.	2,715.00
V 121	14-16 ways SP&N or TP & N Distribution board with thermo plastic frame and door, earth and neutral bars din rail type (protection rating IP40)	Nr.	3,232.00
	<u>Steel Encloser</u>		
	Steel Encloser With a)Material - Electro Zinc Coated Sheet Steel (1.0mm - 2.0 mm thick as applicable) b)Surface finished - Powder Coated c)Construction - Hinged door ,Rubber gasket, key lock, outing Plate, Gland Plate Protection - IP 54		
V 122	Size -400mm(W) *250mm(H) * 125mm(D) - Single raw 18 way	Nr.	9,834.00
V 123	Size -400mm(W) *400mm(H) * 125mm(D) - Two raw 18 way (each way)	Nr.	11,440.00
V 124	Size -450mm(W) *700mm(H) * 150mm(D) - Two raw + MCCB 18 way (each raw)	Nr.	21,700.00
V 125	Size -400mm(W) *600mm(H) * 125mm(D) - Three raw 18 way (each raw)	Nr.	17,620.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
V 126	Size -450mm(W) *850mm(H) * 150mm(D) - Three raw + MCCB 18 way (each raw)	Nr.	27,880.00
	Note:		
	Supply, install and wire the following items in the distribution board (Distribution board paid seperately)		
	Cabtree, Orange Industrial, Genuine, Merlin & Gerin, Schnieider, Moeler/Eaton ,Siemens.		
V 127	40Amp, 30 mA Double Pole ELCB (RCCB)	Nr.	4,415.00
V 128	40Amp, 100 mA Double Pole ELCB (RCCB)	Nr.	4,970.00
V 129	40Amp, 300 mA Double Pole ELCB (RCCB)	Nr.	5,050.00
V 130	63Amp, 30 mA Double Pole ELCB (RCCB)	Nr.	4,925.00
V 131	63Amp, 100 mA Double Pole ELCB (RCCB)	Nr.	5,035.00
V 132	63Amp, 300 mA Double Pole ELCB (RCCB)	Nr.	5,050.00
V 133	40Amp, 30 mA Four Pole ELCB (RCCB)	Nr.	6,565.00
V 134	40Amp, 100 mA Four Pole ELCB (RCCB)	Nr.	6,816.00
V 135	40Amp, 300 mA Four Pole ELCB (RCCB)	Nr.	6,954.00
V 136	63Amp, 30 mA Four Pole ELCB (RCCB)	Nr.	7,200.00
V 137	63Amp, 100 mA Four Pole ELCB (RCCB)	Nr.	7,200.00
V 138	63Amp, 300 mA Four Pole ELCB (RCCB)	Nr.	7,200.00
V 139	100Amp, 300 mA Four Pole ELCB (RCCB)	Nr.	10,415.00
V 140	MCCB metal enclosure. Steel Encloser With a)Material - Electro Sink Coated Sheet Steel (1 - 1.6 mm thick) b)Surface finished - Powder Coated c)Construction - Hinged door ,Rubber gasket, key lock, outing Plate, Gland Plate Protection - IP 54 Size - 250mm(W)X300mm(H)X125mm(D)(Size- approximate)	Nr.	5,360.00
V 141	30,40,60,100 Amp , 18KA Three Pole MCCB without metal enclosure.	Nr.	13,215.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
V 142	30,40,60,100 Amp , 18KA Four Pole MCCB without metal enclosure.	Nr.	10,766.00
V 143	125 Amp , 25KA Three Pole MCCB without metal enclosure.	Nr.	13,866.00
V 144	160 Amp , 25KA Three Pole MCCB without metal enclosure.	Nr.	15,828.00
V 145	250 Amp , 25KA Three Pole MCCB without metal enclosure.	Nr.	19,740.00
V 146	125 Amp , 25KA Four Pole MCCB without metal enclosure.	Nr.	14,802.00
V 147	160 Amp , 25KA Four Pole MCCB without metal enclosure.	Nr.	17,125.00
V 148	250 Amp , 25KA Four Pole MCCB without metal enclosure.	Nr.	25,435.00
V 149	6 - 25 Amp, 10K Single Pole MCB	Nr.	732.00
V 150	32 Amp, 10K Single Pole MCB	Nr.	745.00
V 151	40 Amp, 10K Single Pole MCB	Nr.	780.00
V 152	63 Amp, 10K Single Pole MCB	Nr.	830.00
V 153	6 - 25 Amp, 10K Double Pole MCB	Nr.	1,445.00
V 154	32 Amp, 10K Double Pole MCB	Nr.	1,465.00
V 155	40 Amp, 10K Double Pole MCB	Nr.	1,525.00
V 156	63 Amp, 10K Double Pole MCB	Nr.	1,570.00
V 157	6 - 32 Amp, 10K Three Pole MCB	Nr.	2,095.00
V 158	40 Amp, 10K Three Pole MCB	Nr.	2,166.00
V 159	63 Amp, 10K Three Pole MCB	Nr.	2,275.00
V 160	6 - 25 Amp, 10K Four Pole MCB	Nr.	2,095.00
V 161	32 Amp, 10K Four Pole MCB	Nr.	2,125.00
V 162	40 Amp, 10K Four Pole MCB	Nr.	2,838.00
V 163	63 Amp, 10K Four Pole MCB	Nr.	2,990.00
V 164	40 Amp Double Pole Isolator with plastic enclosure.	Nr.	1,765.00
V 165	63 Amp Double Pole Isolator with plastic enclosure.	Nr.	1,980.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
V 166	100 Amp Double Pole Isolator with plastic enclosure.	Nr.	2,436.00
V 167	40 Amp Three Pole Isolator with plastic enclosure.	Nr.	2,630.00
V 168	63 Amp Three Pole Isolator with plastic enclosure.	Nr.	2,808.00
V 169	100 Amp Three Pole Isolator with plastic enclosure.	Nr.	2,820.00
V 170	40 Amp Four Pole Isolator with plastic enclosure.	Nr.	2,935.00
V 171	63 Amp Four Pole Isolator with plastic enclosure.	Nr.	3,162.00
V 172	100 Amp Four Pole Isolator with plastic enclosure.	Nr.	3,744.00
	<u>LIGHT FITTINGS</u>		
	<u>Note:</u>		
	Rate for items V 173 - V 204 shall include the cost of adapter, connecting 2core 1mm² cable of length not exceeding 1.5m , galvanized hanging chain. (incase the cable length exceed 1.5m refer item V 90 for Payment of additional length.)		
	<u>Note:</u>		
	Lamp fitting shall include the cost of fitting and bulb & shall be given a two year Warranty and one year warranty for bulb. This rate for Items V173- V188.		
	Lamp fitting with given a two year Warranty for fitting .		
	<u>Supply & Install only the following fittings.</u>		
V 173	Inner diameter of 5" recess mounted down light with 20 watt CFL bulb.	Nr.	1,704.00
V 174	Inner diameter of 5" surface mounted down light with 20 watt CFL bulb.	Nr.	1,915.00
V 175	Inner diameter of 4" wall mounted cylindrical shaped upward light fitting with 20 watt CFL bulb.	Nr.	4,370.00
V 176	Weatherproof IP65 rated wall mounted cylindrical shaped up down ward light fitting with 20 watt CFL bulb.	Nr.	5,412.00
V 177	Weatherproof IP65 rated wall mounted 2'-0" single fluorescent light fitting with 18 watt CFL bulb.	Nr.	3,535.00
V 178	8" clear transparent glass globe pendent type light fitting with 20 watt CFL bulb.	Nr.	2,280.00
V 179	Inner diameter of 5" recess mounted down light with 18 watt LED bulb.	Nr.	2,178.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
V 180	Inner diameter of 5" surface mounted down light with 18 watt LED bulb.	Nr.	2,490.00
V 181	Inner diameter of 4" wall mounted cylindrical shaped upward light fitting with 18 watt LED bulb.	Nr.	4,890.00
V 182	Weatherproof IP65 rated wall mounted cylindrical shaped up down ward light fitting with 18 watt LED bulb.	Nr.	6,036.00
V 183	Weatherproof IP65 rated wall mounted 2'-0" single fluorescent light fitting with 38 watt LED bulb.	Nr.	3,636.00
V 184	8" clear transparent glass globe pendent type light fitting with 38 watt LED bulb.	Nr.	2,700.00
V 185	Pendent lamp with 12 watt LED bulb.		1,181.00
V 186	Pendent lamp with 25 watt CFL bulb.	Nr.	885.00
V 187	IP65 weatherproof 50 watt LED Flood light.	Nr.	6,143.00
V 188	IP65 weatherproof 100 watt LED Flood light.	Nr.	11,256.00
	Note:		
	For items V 189 to V 2014, the rate shall include the bulb lamp complete with the fitting. Bulbs make shall be - Philips, osram & Orange. All fittings identified for this range are based on " Orange" range.		
V 189	4'-0" long 18 watt single fluorescent Batton type T5 LED lamp fitting	Nr.	1,327.00
V 190	2'-0" long 18 watt single fluorescent Batton type T5 LED lamp fitting	Nr.	1,040.00
V 191	2'-0" x 2'-0' LED 36 watt Ceiling Surface Mounted Panel Light Fitting - Square Type	Nr.	7,530.00
V 192	0'-9" x 0'-9" LED 18 watt Ceiling Surface Mounted Panel Light Fitting - Square Type	Nr.	2,220.00
V 193	0'-7" x 0'-7" LED 12 watt Ceiling Surface Mounted Panel Light Fitting - Square Type	Nr.	1,780.00
V 194	0'-5" x 0'-5" LED 6 watt Ceiling Surface Mounted Panel Light Fitting - Square Type	Nr.	1,230.00
V 195	LED 18 watt Ceiling Surface Mounted Panel Light Fitting - Circuler Type	Nr.	2,215.00
V 196	LED 12 watt Ceiling Surface Mounted Panel Light Fitting - Circuler Type	Nr.	1,780.00
V 197	LED 6 watt Ceiling Surface Mounted Panel Light Fitting - Circuler Type	Nr.	1,230.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
V 198	2'-0" x 2'-0" LED 36 watt Cielinge Raecessed Flat Panel Light Fitting - Square Type	Nr.	7,530.00
V 199	0'-9" x 0'-9" LED 18 watt Cielinge Raecessed Flat Panel Light Fitting - Square Type	Nr.	1,830.00
V 200	0'-7" x 0'-7" LED 12 watt Cielinge Raecessed Flat Panel Light Fitting - Square Type	Nr.	1,505.00
V 201	0'-5" x 0'-5" LED 6 watt Cielinge Raecessed Flat Panel Light Fitting - Square Type	Nr.	1,070.00
V 202	LED 18 watt Cielinge Raecessed Flat Panel Light Fitting - Circuler Type	Nr.	1,835.00
V 203	LED 12 watt Cielinge Raecessed Flat Panel Light Fitting - Circuler Type	Nr.	1,505.00
V 204	LED 6 watt Cielinge Raecessed Flat Panel Light Fitting - Circuler Type	Nr.	1,070.00
	<u>Miscellaneous</u>		
	Select either item V 205 or else item V 206 in combination with appropriate number of item V 207. Item V 208 meant for high current capacity main panel board.		
V 205	Provide an earth electrode copper plate 2'-0" x 2'-0" x 3mm thick at 2.0m depth including excavation and backfilling. Rate shall include connection to the main panel, sub main, earth clips & etc. with 1'-0" x 1'-0" x 1'-0" earth pit consist of 4 1/2" brick work , 3" thick Grade 20 concrete cover slab as per drawing no. ELE/ST/04 .(Earth wire paid separetly)	Item	31,700.00
V 206	Provide an earth electrode 6'-0" long , 2" dia. x 2.3 mm thick GI pipe. Rate shall include connection to the main panel, sub main, earth clips& etc. with 1'-0" x 1'-0" x 1'-0" earth pit consist of 4 1/2" brick work , 3" thick Grade 20 concrete cover slab as per drawing no. ELE/ST/03. (Earth wire paid separetly)	Item	4,935.00
V 207	Provide an earth electrode 5'-0" long , 16 mm dia. Copper bonded solid steel rod.. Rate shall include connection to the main panel, sub main, earth clips& etc as per drawing no. ELE/ST/04. (Earth wire paid separetly)	Nr.	1,365.00
V 208	Supply , Installation and connection of 25 x 3mm copper tape with necessary accessories. Rate shall include for connection of both ends with brass.	L.ft.	435.00
V 209	Supply and install D'Bracket complete set (small size)	Nr.	582.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
V 210	Supply and install complete "D" shape bracket including insulator, Nuts, bolts ect. fixed to working order.	Per Set	955.00
V 211	Supply and install 50mm x 50mm x 6mm "L" Iron, including drilling 12mm holes, 10mm G.I. bolt, and application of two coats anticorrosive paint all complete to working order.	L.ft.	285.00
	Locable bus bar box with a)Material - Electro Zinc Coated Sheet Steel (1.0mm - 2.0 mm thick as applicable) b)Surface finished - Powder Coated c)Construction - Hinged door ,Rubber gasket, key lock, outing Plate, Gland Plate Protection - IP 54		
V 212	Supply , installation and connection of 32A - 100A three phase with powder coated locable bus bar box including 4 pole copper bar, neutral bar and earth bar.	Nr.	7,350.00
V 213	Supply , installation and connection of 100A - 125A three phase with powder coated locable bus bar box including 4 pole copper bar neutral bar and earth bar.	Nr.	8,565.00
V 214	Supply , installation and connection of 0A - 60A single phase with powder coated locable bus bar box including 4 pole copper bar neutral bar and earth bar.	Nr.	6,320.00
V 215	Testing of the electrical installation and submission of certificate from a chartered Electrical Engineer registerd at CEB.		
a)	For Building Floor Area Less than 2500 Sq. ft.	Item	10,000.00
b)	For Building Floor Area between 2500 - 5000 Sq. ft.	Item	22,000.00
c)	For Building Floor Area between 5000 - 10000 Sq. ft.	Item	42,000.00
d)	For Building Floor Area more than 10000 Sq. ft.	Item	65,000.00
V 216	Supply,install, commissioning and maintenance of an Individual solar powered 20 w LED single arm street Light including following items and as aestechically suited to required locations such as car park areas, seating areas, etc. of the site as directed by the Divisional Engineer - pole height of street light 6m as per Drawing No.ELEC/ST/01 and specifications (post, lamp, panel, charge controller and battery bank)	No	156,000.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
V 217	Supply,install, commissioning and maintenance of an Individual solar powered 20 w LED double arm street Light including following items and as aestechically suited to required locations such as car park areas, seating areas, etc. of the site as directed by the Divisional Engineer - pole height of street light 6m as per Drawing No.ELEC/ST/02 and specifications (post, lamp, panel, charge controller and battery bank)	No	156,000.00
V 218	Supply & replacing one gang one way switch without wiring including removing old one.	Nr.	240.00
V 219	Supply & replacing two gang one way switch without wiring.Rate including removing old one.	Nr.	372.00
V 220	Supply & replacing three gang one way switch without wiring .Rate including removing old one.	Nr.	495.00
V 221	Supply & replacing four gang one way switch without wiring .Rate including removing old one.	Nr.	620.00
V 222	Supply & replacing five gang one way switch without wiring.Rate including removing old one.	Nr.	735.00
V 223	Supply & replacing 13 Amp. Switch socket outlet (max. 6 A) without wiring.Rate including removing old one.	Nr.	560.00
V 224	Supply & replacing 15 Amp. Switch socket outlet without wiring.Rate including removing old one.	Nr.	1,060.00
V 225	Supply & replacing 13 Amp. Switch socket outlet without wiring.Rate including removing old one.	Nr.	560.00
	<u>W - METAL WORK</u>		
	<u>Note:</u>		
	Aluminium doors, windows and partitions shall confirm to the following requirements:		
1	Aluminium alloy should confirm to- ISO - 9001:2008, SLS 1410:2011 / SLS 1411:2011		
2	Anodized coating thickness should be 25 ± 5 microns		

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
3	Aluminium extrusions available in the Local Market are being either manufactured in Sri Lanka or imported material. Due to the continuous change of the extrusion profiles and thicknesses from time to time, it has become very difficult to specify standard section sizes that are to be used for door /window frames and sash members. Hence the rates given herein are based on the recommended minimum sizes and thicknesses of profiles published by leading Aluminium profile manufacturers (Alumex Plc, Swisstek Aluminium Limited) as at present for the doors, windows, fanlights and partitions.		
4	At the time of bidding, all the Bidders shall specifically be requested to submit the following information.		
(a)	The specifications and thickness of Aluminium extrusions bidder proposes to use on the works.		
(b)	Full size cross sections of profiles.		
(c)	Documentary evidence from the Profile Manufacture to the effect that the proposed profile will serve for the intended purpose.		
(d)	A Manufacturer's test certificate be produced as evidence that the powder coating is of required thickness.		
5	Physical properties :-		
	(a) Minimum tensile strength 150 Mpa		
	(b) Elongation 7%		
6	All screws should be stainless steel		
7	But hinges and bar type hinges should be Aluminium or Stainless Steel.		
8	The item descriptions should be read along with the annexed detail drawings. Drawing no:- AR/TYPE PLAN/DOORS & WINDOWS/2015.04.01/DETAIL 1 - 19 (Sheet 1 - 19)		
	The over-all profile dimensions used in deriving B.S.R. rates for main members of each component are as follows. Doors - 100mm x 1.6mm thick, Windows - Casement - 70mm x 1.2 mm thick, Windows - Sliding - 70mm x 1.5 mm thick, Fan Light - 60mm x 1.2mm thick, Partition - 76mm x 1.2mm thick Shop drawings should be submitted to the Divisional Engineer prior to fabrication.		

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
9	The rates shall include Neoprene gasket, pop rivets, Rawl plugs, Screws, Aluminium cleats etc.		
10	The rates given herein are for Natural aluminium profiles.		
11	For powder coated aluminium profiles (minimum powder coating thickness of 60 ± 5 microns) the respective item rate shall be increased by 15%.		
12	For Bronze anodized aluminium profiles, the respective item rate shall be increased by 5%.		
13	When clear glass to be replaced with Tinted glass, the respective item rate shall be increased by 2%.		
14	When openable door sashes are to be fitted with floor mounted hinged, deduct 5% from the respective item rate to account for omission of hinges. Add new items for Floor hinge & Door closer to be paid separately as per items W-59 & W-60.		
	<u>Doors</u>		
W 01	<u>Openable Single Sash Door (Both side Polyester coated 4mm thick Aluminium Composite Panel & Glazed Panel) with Louvers on Top</u>		
	Natural aluminium single sash butt hinged openable door with middle rail and louvers on top , panelling with aluminium composite panel of total thickness 4mm, with both sides Polyester coated aluminium sheets of 0.2mm thick and glazed with 5mm thick clear glass panes, neoprene and woold beading, gaskets, pop rivots, threaded bar with nut and approved quality lock, butt hinges, door handle with cap nut. As per the members , sizes and details given in Drawing No:- AR/TYPE PLAN/DOORS & WINDOWS/2015.04.01/ DETAIL 02 - D1	Sq.ft.	1,855.00
W 02	<u>Openable Single Sash Door (Both side Polyester coated 4mm thick Aluminium Composite Panel & Glazed Panel) with Fixed Glass on Top</u>		
	Natural aluminium single sash butt hinged openable door with middle rail and fixed glass on top , panelling with aluminium composite panel of total thickness 4mm, with both sides Polyester coated aluminium sheets of 0.2mm thick and glazed with 5mm thick clear glass panes, neoprene and woold beading, gaskets, pop rivots, threaded bar with nut and approved quality lock, butt hinges, door handle with cap nut. As per the members , sizes and details given in Drawing No:- AR/TYPE PLAN/DOORS & WINDOWS/2015.04.01/ DETAIL 02 - D2	Sq.ft.	1,685.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
W 03	<u>Openable Single Sash Door (Both side Polyester coated 4mm thick Aluminium Composite Panel & Glazed Panel)</u>		
	Natural aluminium single sash butt hinged openable door with middle rail , panelling with aluminium composite panel of total thickness 4mm, with both sides Polyester coated aluminium sheets of 0.2mm thick with 5mm thick clear glass panes, neoprene and woold beading, gaskets, pop rivots, threaded bar with nut and approved quality lock, butt hinges, door handle with cap nut. As per the members , sizes and details given in Drawing No: AR/TYPE PLAN/DOORS & WINDOWS/2015.04.01/ DETAIL 02 - D3	Sq.ft.	1,695.00
W 04	<u>Openable Single Sash Door (Fully Glazed) with Louvers on Top</u>		
	Natural aluminium single sash butt hinged openable door with middle rail and louvers on top , glazed with 5mm thick clear glass panes, neoprene and woold beading, gaskets, pop rivots, threaded bar with nut and approved quality lock, butt hinges, door handle with cap nut. As per the members , sizes and details given in Drawing No:- AR/TYPE PLAN/DOORS & WINDOWS/2015.04.01/ DETAIL 03 - D4	Sq.ft.	1,760.00
W 05	<u>Openable Single Sash Door (Fully Glazed) with Fixed Glass on Top</u>		
	Natural aluminium single sash butt hinged openable door with middle rail and fixed glass on top , glazed with 5mm thick clear glass panes, neoprene and woold beading, gaskets, pop rivots, threaded bar with nut and approved quality lock, butt hinges, door handle with cap nut. As per the members , sizes and details given in Drawing No:- AR/TYPE PLAN/DOORS & WINDOWS/2015.04.01/ DETAIL 03 - D5	Sq.ft.	1,600.00
W 06	<u>Openable Single Sash Door (Fully Glazed)</u>		
	Natural aluminium single sash butt hinged openable door with middle rail and glazed with 5mm thick clear glass panes, neoprene and woold beading, gaskets, pop rivots, threaded bar with nut and approved quality lock, butt hinges, door handle with cap nut. As per the members , sizes and details given in Drawing No:- AR/TYPE PLAN/DOORS & WINDOWS/ 2015.04.01/ DETAIL 03 - D6	Sq.ft.	1,600.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
W 07	<u>Openable Single Sash Door (Fully panelled with both side Polyester coated 4mm thick Aluminium Composite Panel)</u>		
	Natural aluminium single sash butt hinged openable door with middle rail and fully panelling with aluminium composite panel of total thickness 4mm, with both sides Polyester coated aluminium sheets of 0.2mm thick, neoprene and woold beading, gaskets, pop rivots, threaded bar with nut and approved quality lock, butt hinges, door handle with cap nut. As per the members , sizes and details given in Drawing No:- AR/TYPE PLAN/DOORS & WINDOWS/ 2015.04.01/ DETAIL 04 - D7 & D8	Sq.ft.	1,765.00
W 08	<u>Sliding Single Sash Door (Both side Polyester coated 4mm thick Aluminium Composite Panel & Glazed Panel)</u>		
	Natural aluminium single sash sliding door with middle rail , panelling with aluminium composite panel of total thickness 4mm, with both sides Polyester coated aluminium sheets of 0.2mm thick and glazed with 5mm thick clear glass panes, neoprene and woold beading, gaskets, pop rivots, threaded bar with nut roller, flush bolt and approved quality lock , door handle with cap nut. As per the members , sizes and details given in Drawing No:- AR/TYPE PLAN/DOORS & WINDOWS/ 2015.04.01/ DETAIL 05 - D9	Sq.ft.	1,375.00
W 09	<u>Sliding Single Sash Door (Fully Glazed)</u>		
	Natural aluminium single sash fully glazed sliding door with middle rail , glazed with 5mm thick clear glass panes, neoprene and woold beading, gaskets, pop rivots, threaded bar with nut roller, flush bolt and approved quality lock , door handle with cap nut. As per the members , sizes and details given in Drawing No:- AR/TYPE PLAN/DOORS & WINDOWS/ 2015.04.01/ DETAIL 05 - D10	Sq.ft.	1,422.00
W 10	<u>Sliding Single Sash Door (Fully panelled with both side Polyester coated 4mm thick Aluminium Composite Panel)</u>		-
	Natural aluminium single sash sliding door with middle rail , fully panelling with aluminium composite panel of total thickness 4mm, with both sides Polyester coated aluminium sheets of 0.2mm thick, neoprene and woold beading, gaskets, pop rivots, threaded bar with nut roller, flush bolt and approved quality lock , door handle with cap nut. As per the members , sizes and details given in Drawing No:- AR/TYPE PLAN/DOORS & WINDOWS/ 2015.04.01/ DETAIL 05 - D11	Sq.ft.	1,520.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
W 11	<u>Openable Double Sash Door (Both side Polyester coated 4mm thick Aluminium Composite Panel & Glazed Panel) with Fixed Glass on Top</u>		
	Natural aluminium double sash butt hinged openable door with middle rail and fixed glass on top , panelling with aluminium composite panel of total thickness 4mm, with both sides Polyester coated aluminium sheets of 0.2mm thick and glazed with 5mm thick clear glass panes, neoprene and woold beading, gaskets, pop rivots, threaded bar with nut and approved quality lock, butt hinges, door handle with cap nut. As per the members , sizes and details given in Drawing No:- AR/TYPE PLAN/DOORS & WINDOWS/2015.04.01/ DETAIL 06 - D12	Sq.ft.	1,695.00
W 12	<u>Openable Double Sash Door (Both side Polyester coated 4mm thick Aluminium Composite Panel & Glazed Panel) with Louvers on Top</u>		
	Natural aluminium double sash butt hinged openable door with middle rail and louvers on top , panelling with aluminium composite panel of total thickness 4mm, with both sides Polyester coated aluminium sheets of 0.2mm thick and glazed with 5mm thick clear glass panes, neoprene and woold beading, gaskets, pop rivots, threaded bar with nut and approved quality lock, butt hinges, door handle with cap nut. As per the members , sizes and details given in Drawing No:- AR/TYPE PLAN/DOORS & WINDOWS/2015.04.01/ DETAIL 06 - D13	Sq.ft.	1,810.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
W 13	<u>Openable Double Sash Door (Both side Polyester coated 4mm thick Aluminium Composite Panel & Glazed Panel)</u>		
	Natural aluminium double sash butt hinged openable door with middle rail , panelling with aluminium composite panel of total thickness 4mm, with both sides Polyester coated aluminium sheets of 0.2mm thick and glazed with 5mm thick clear glass panes, neoprene and woold beading, gaskets, pop rivots, threaded bar with nut and approved quality lock, butt hinges, door handle with cap nut. As per the members , sizes and details given in Drawing No:- AR/TYPE PLAN/DOORS & WINDOWS/2015.04.01/ DETAIL 06 - D14	Sq.ft.	1,820.00
W 14	<u>Openable Double Sash Door (Fully Glazed) with Fixed Glass on Top</u>		
	Natural aluminium double sash butt hinged openable door with middle rail and fixed glass on top , fully glazed with 5mm thick clear glass panes, neoprene and woold beading, gaskets, pop rivots, threaded bar with nut and approved quality lock, butt hinges, door handle with cap nut. As per the members , sizes and details given in Drawing No:- AR/TYPE PLAN/DOORS & WINDOWS/2015.04.01/ DETAIL 07 - D15	Sq.ft.	1,600.00
W 15	<u>Openable Double Sash Door (Fully Glazed) with Louvers on Top</u>		
	Natural aluminium double sash butt hinged openable door with middle rail and louvers on top , fully glazed with 5mm thick clear glass panes, neoprene and woold beading, gaskets, pop rivots, threaded bar with nut and approved quality lock, butt hinges, door handle with cap nut. As per the members , sizes and details given in Drawing No:- AR/TYPE PLAN/DOORS & WINDOWS/2015.04.01/DETAIL 07 - D16	Sq.ft.	1,710.00
W 16	<u>Openable double Sash Door (Fully Glazed)</u>		
	Natural aluminium double sash butt hinged openable door with middle rail and fully glazed with 5mm thick clear glass panes, neoprene and woold beading, gaskets, pop rivots, threaded bar with nut and approved quality lock, butt hinges, door handle with cap nut. As per the members , sizes and details given in Drawing No:- AR/TYPE PLAN/DOORS & WINDOWS/ 2015.04.01/DETAIL 07 - D17	Sq.ft.	1,700.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
W 17	<u>Sliding Double Sash Door (Both side Polyester coated 4mm thick Aluminium Composite Panel & Glazed Panel)</u>		
	Natural aluminium double sash sliding door with middle rail , panelling with aluminium composite panel of total thickness 4mm, with both sides Polyester coated aluminium sheets of 0.2mm thick and glazed with 5mm thick clear glass panes, neoprene and woold beading, gaskets, pop rivots, threaded bar with nut roller, flush bolt and approved quality lock , door handle with cap nut. As per the members , sizes and details given in Drawing No:- AR/TYPE PLAN/DOORS & WINDOWS/ 2015.04.01/DETAIL 08 - D18	Sq.ft.	1,590.00
W 18	<u>Sliding Double Sash Door (Fully Glazed) with Fixed Glass on Top</u>		
	Natural aluminium double sash fully glazed sliding door with middle rail , fully glazed with 5mm thick clear glass panes, neoprene and woold beading, gaskets, pop rivots, threaded bar with nut roller, flush bolt and approved quality lock , door handle with cap nut. As per the members , sizes and details given in Drawing No:- AR/TYPE PLAN/DOORS & WINDOWS/ 2015.04.01/DETAIL 08 - D19	Sq.ft.	1,545.00
W 19	<u>Openable Single Sash Door for Toilets (Fully panelled with Aluminium Composite Panel) (70mm Casement 1.5mm thick outer frame, 1.5mm thick sash)</u>		
	Natural aluminium single sash butt hinged openable door with middle rail and panelling with aluminium composite panel of total thickness 4mm with both sides Polyester coated aluminium sheets of 0.2mm thick, ruber beading, gaskets, pop rivots, threaded bar with nut and approved quality lock, butt hinges, door handle with cap nut. As per the members , sizes and details given in Drawing No:- AR/TYPE PLAN/DOORS & WINDOWS/2015.04.01/ DETAIL 04 - D20	Sq.ft.	1,420.00
	<u>Windows</u>		
W 20	<u>Casement Window with Louvers on Top (1 Bay)</u>		
	Natural aluminium casement window single sash with louvers on top, consisting of 5mm thick clear glass panes, casement lock, pull rings , screws, pop rivots, gaskets, hinges, weather strip etc.As per the members , sizes and details given in Drawing No:- AR/TYPE PLAN/DOORS & WINDOWS/ 2015.04.01/DETAIL 09 - W1	Sq.ft.	1,905.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
W 21	<u>Casement Window with Fixed Glass on Top (1 Bay)</u>		
	Natural aluminium casement window single sash with fixed glass on top, consisting of 5mm thick clear glass panes, casement lock, screws, pop rivots, gaskets, hinges, weather strip etc.As per the members , sizes and details given in Drawing No:- AR/TYPE PLAN/DOORS & WINDOWS/ 2015.04.01/ DETAIL 09 - W2	Sq.ft.	1,810.00
W 22	<u>Casement Window (1 Bay)</u>		
	Natural aluminium casement window single sash , consisting of 5mm thick clear glass panes, casement lock, screws, pop rivots, gaskets, hinges, weather strip etc.As per the members , sizes and details given in Drawing No:- AR/TYPE PLAN/ DOORS & WINDOWS/2015.04.01/DETAIL 09 - W3	Sq.ft.	1,870.00
W 23	<u>Casement Window with Louvers on Top (2 Bays)</u>		
	Natural aluminium casement window double sash with louvers on top, consisting of 5mm thick clear glass panes, casement lock, screws, pop rivots, gaskets, hinges, weather strip etc.As per the members , sizes and details given in Drawing No:- AR/TYPE PLAN/ DOORS & WINDOWS/2015.04.01/ DETAIL 10 - W4	Sq.ft.	1,635.00
W 24	<u>Casement Window with Fixed Glass on Top (2 Bays)</u>		
	Natural aluminium casement window double sash with fixed glass on top, consisting of 5mm thick clear glass panes, casement lock, screws, pop rivots, gaskets, hinges, weather strip etc.As per the members , sizes and details given in Drawing No:- AR/TYPE PLAN/ DOORS & WINDOWS/2015.04.01/ DETAIL 10 - W5	Sq.ft.	1,640.00
W 25	<u>Casement Window (2 Bays)</u>		
	Natural aluminium casement window double sash , consisting of 5mm thick clear glass panes, casement lock, screws, pop rivots, gaskets, hinges, weather strip etc. As per the members , sizes and details given in Drawing No:- AR/TYPE PLAN/ DOORS & WINDOWS/2015.04.01/ DETAIL 10 - W6	Sq.ft.	1,800.00
W 26	<u>Sliding Window with Louvers on Top (2 Bays)</u>		
	Natural aluminium sliding window with louvers on top consisting of 5mm thick clear glass panes , lock, roller, screws, gaskets, nut felt, pop rivots, cap, plastic guide etc. As per the members , sizes and details given in Drawing No:- AR/TYPE PLAN/DOORS & WINDOWS/ 2015.04.01/ DETAIL 11 - W7	Sq.ft.	2,150.00
W 27	<u>Sliding Window with Fixed Glass on Top (2 Bays)</u>		

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
	Natural aluminium sliding window with fixed glass on top consisting of 5mm thick clear glass panes , lock, roller, screws, gaskets, nut felt, pop rivots, cap, plastic guide etc. As per the members , sizes and details given in Drawing No:- AR/TYPE PLAN/DOORS & WINDOWS/ 2015.04.01/ DETAIL 11 - W8	Sq.ft.	1,500.00
W 28	<u>Sliding Window (2 Bays)</u>		
	Natural aluminium sliding window ,consisting of 5mm thick clear glass panes , lock, roller, screws, gaskets, nut felt, pop rivots, cap, plastic guide etc. As per the members , sizes and details given in Drawing No:- AR/ TYPE PLAN/ DOORS & WINDOWS/ 2015.04.01/ DETAIL 11 - W9	Sq.ft.	1,350.00
W 29	<u>Casement Window with Louvers on Top (3 Bays)</u>		
	Natural aluminium casement window with louvers on top, consisting of 5mm thick clear glass panes, casement lock, screws, pop rivots, gaskets, hinges, weather strip etc.As per the members , sizes and details given in Drawing No:- AR/ TYPE PLAN/DOORS & WINDOWS/ 2015.04.01/ DETAIL 12 - W10	Sq.ft.	1,700.00
W 30	<u>Casement Window with Fixed Glass on Top (3 Bays)</u>		
	Natural aluminium casement window with fixed glass on top, consisting of 5mm thick clear glass panes, casement lock, screws, pop rivots, gaskets, hinges, weather strip etc.As per the members , sizes and details given in Drawing No:- AR/ TYPE PLAN/DOORS & WINDOWS/ 2015.04.01/ DETAIL 12 - W11	Sq.ft.	1,640.00
W 31	<u>Casement Window (3 Bays)</u>		
	Natural aluminium casement window, consisting of 5mm thick clear glass panes, casement lock, screws, pop rivots, gaskets, hinges, weather strip etc. As per the members , sizes and details given in Drawing No:- AR/ TYPE PLAN/DOORS & WINDOWS/ 2015.04.01/ DETAIL 12 - W12	Sq.ft.	1,500.00
W 32	<u>Sliding Window with Louvers on Top (3 Bays)</u>		
	Natural aluminium sliding window with louvers on top consisting of 5mm thick clear glass panes , lock, roller, screws, gaskets, nut felt, pop rivots, cap, plastic guide etc. As per the members , sizes and details given in Drawing No:- AR/ TYPE PLAN/DOORS & WINDOWS/ 2015.04.01/ DETAIL 13 - W13	Sq.ft.	1,580.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
W 33	<u>Sliding Window with Fixed Glass on Top (3 Bays)</u>		
	Natural aluminium sliding window with fixed glass on top consisting of 5mm thick clear glass panes , lock, roller, screws, gaskets, nut felt, pop rivots, cap, plastic guide etc. As per the members , sizes and details given in Drawing No:- AR/ TYPE PLAN/DOORS & WINDOWS/ 2015.04.01/ DETAIL 13 - W14	Sq.ft.	1,510.00
W 34	<u>Sliding Window (3 Bays)</u>		
	Natural aluminium sliding window ,consisting of 5mm thick clear glass panes , lock, roller, screws, gaskets, nut felt, pop rivots, cap, plastic guide etc. As per the members , sizes and details given in Drawing No:- AR/ TYPE PLAN/DOORS & WINDOWS/ 2015.04.01/ DETAIL 13 - W15	Sq.ft.	1,425.00
W 35	<u>Top Hung Casement Window with Fixed Louvers on Top & Fixed Glass at Bottom (3 Bays)</u>		
	Natural aluminium top hung casement window with fixed glass on top and fixed glass at bottom, consisting of 5mm thick clear glass panes, casement lock, screws, pop rivots, gaskets, hinges, weather strip etc.As per the members , sizes and details given in Drawing No:- AR/ TYPE PLAN/DOORS & WINDOWS/ 2015.04.01/ DETAIL 14 - W16	Sq.ft.	3,120.00
W 36	<u>Top Hung Casement Window with Fixed Louvers on Top & Fixed Glass at Bottom (2 Bays)</u>		
	Natural aluminium top hung casement window with fixed glass on top and fixed glass at bottom, consisting of 5mm thick clear glass panes, casement lock, screws, pop rivots, gaskets, hinges, weather strip etc.As per the members , sizes and details given in Drawing No:- AR/ TYPE PLAN/DOORS & WINDOWS/ 2015.04.01/ DETAIL 14 - W17	Sq.ft.	3,580.00
W 37	<u>Casement Window with Louvers on Top (4 Bays)</u>		
	Natural aluminium casement window with louvers on top, consisting of 5mm thick clear glass panes, casement lock, screws, pop rivots, gaskets, hinges, weather strip etc. As per the members , sizes and details given in Drawing No:- AR/ TYPE PLAN/DOORS & WINDOWS/ 2015.04.01/ DETAIL 15 - W18	Sq.ft.	2,240.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
W 38	<u>Casement Window with Fixed Glass on Top (4 Bays)</u>		
	Natural aluminium casement window with fixed glass on top, consisting of 5mm thick clear glass panes, casement lock, screws, pop rivots, gaskets, hinges, weather strip etc.As per the members , sizes and details given in Drawing No:- AR/ TYPE PLAN/DOORS & WINDOWS/ 2015.04.01/ DETAIL 15 - W19	Sq.ft.	1,150.00
W 39	<u>Sliding Window with Louvers on Top (4 Bays)</u>		
	Natural aluminium sliding window with louvers on top consisting of 5mm thick clear glass panes , lock, roller, screws, gaskets, nut felt, pop rivots, cap, plastic guide etc. As per the members , sizes.	Sq.ft.	1,320.00
W 40	<u>Louver Panel 1</u>		
	Natural aluminium framed lovers, consisting of screws, pop rivots, etc. As per the members , sizes and details given in Drawing No:- AR/ TYPE PLAN/DOORS & WINDOWS/ 2015.04.01/ DETAIL 16 - W20	Sq.ft.	1,135.00
W 41	<u>Louver Panel 2</u>		
	Natural aluminium framed lovers, consisting of screws, pop rivots, etc. As per the members , sizes and details given in Drawing No:- AR/ TYPE PLAN/DOORS & WINDOWS/ 2015.04.01/ DETAIL 16 - W21	Sq.ft.	1,310.00
W 42	<u>Top Hung Fanlight with Lover panel on top</u>		
	Natural aluminium top hung type fanlight with louver on top consisting of locks, screws, pop rivots, gaskets, hinges, weather strip etc. As per the members , sizes and details given in Drawing No:- AR/ TYPE PLAN/DOORS & WINDOWS/ 2015.04.01/ DETAIL 17 - FL1	Sq.ft.	2,455.00
W 43	<u>Top Hung Fanlight with Fixed Glass on top</u>		
	Natural aluminium top hung type fanlight with fixed glass on top consisting of locks, screws, pop rivots, gaskets, hinges, weather strip etc. As per the members , sizes and details given in Drawing No:- AR/ TYPE PLAN/DOORS & WINDOWS/ 2015.04.01/ DETAIL 17 - FL2	Sq.ft.	2,160.00
W 44	<u>Centre Pivot Fanlight with Lover panel on top</u>		
	Natural aluminium centre pivot type fanlight with louver on top consisting of locks, screws, pop rivots, gaskets, hinges, weather strip etc. As per the members , sizes and details given in Drawing No:- AR/ TYPE PLAN/DOORS & WINDOWS/ 2015.04.01/ DETAIL 17 - FL3	Sq.ft.	2,695.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
W 45	<u>Top Hung Fanlight with Fixed Glass on top</u>		
	Natural aluminium centre pivot type fanlight with fixed glass on top consisting of locks, screws, pop rivots, gaskets, hinges, weather strip etc. As per the members , sizes and details given in Drawing No:- AR/ TYPE PLAN/DOORS & WINDOWS/ 2015.04.01/ DETAIL 17 - FL4	Sq.ft.	2,400.00
W 46	<u>Top Hung Fanlight (3 bays)</u>		
	Natural aluminium top hung type fanlight 3 bays, consisting of locks, screws, pop rivots, gaskets, hinges, weather strip etc. As per the members , sizes and details given in Drawing No:- AR/ TYPE PLAN/DOORS & WINDOWS/ 2015.04.01/ DETAIL 18 - FL5	Sq.ft.	1,070.00
W 47	<u>Top Hung Fanlight (2 Bays + 1 Bay)</u>		
	Natural aluminium top hung type fanlight 2 bays + 1 bay, consisting of locks, screws, pop rivots, gaskets, hinges, weather strip etc. As per the members , sizes and details given in Drawing No:- AR/ TYPE PLAN/DOORS & WINDOWS/ 2015.04.01/ DETAIL 18 - FL6	Sq.ft.	1,000.00
	<u>Fixed Glazed Window</u>		
W 48	Natural aluminium fixed glazed window with 5mm thick clear glass and screws, pop rivots, gasket and wool felt etc.	Sq.ft.	1,355.00
	<u>Partitions</u>		
	<u>Fully Board Partition with Laminated Plywood (two sheets kept back to back)</u>		
W 49	Natural aluminium partition frame top and bottom Panels, panelled with 2.5mm thick single side laminated plywood boarding, two boards kept back to back (total thickness 5mm) with necessary pop rivots, gasket and GI channels & etc. work complete in order.	Sq.ft.	810.00
	<u>Fully Board Partition with Melamine MDF</u>		
W 50	Natural aluminium partition frame top and bottom Panels 6mm thick Melamine MDF boarding with necessary pop rivots, gasket and GI channels, etc. work complete in order.	Sq.ft.	860.00
	<u>Full Board Partition with both sides Polyester coated Aluminium Composite Panel of 4mm thick</u>		
W 51	Natural aluminium partition frame with top and bottom Panels cladde with 4mm thick both side polyester coated cladding sheets (aluminium skin thickness of 0.2mm pasted on either side) including necessary pop rivots, gasket and GI channels & etc. work complete in order.	Sq.ft.	2,195.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
	<u>Glazed & Board Partition with Laminated Plywood (two sheets kept back to back) & 5mm Tinted Glass</u>		
W 52	Natural aluminium partition frame, one part panelled with 2.5mm thick single side laminated plywood boarding, two boards kept back to back (total thickness 5mm) and other portion panelled with 5mm thick clear glass panes with necessary pop rivots, gasket and GI channels & etc. work complete in order.	Sq.ft.	850.00
W 53	Natural aluminium partition frame, top & bottom Panelled with 2.5mm thick single side laminated plywood boarding, two boards kept back to back (total thickness 5mm) and middle Panel with 5mm thick clear glass with necessary pop rivots, gasket and GI channels & etc. work complete in order.	Sq.ft.	860.00
	<u>Gypsum Board Partition</u>		
W 54	Fabricating and installing 9mm thick gypsum board partitioning including necessary GI channel member frame work fixed on to existing wall/floors and all completed with board joints taped and finished with gypsum compound to get wall finish. Rate to include for applying one coat of Acrylic filler to boards.	Sq.ft.	850.00
	<u>Partition Doors</u>		
	<u>TYPE-I - Partition Door Fully Panelled with Laminated Plywood (two sheets kept back to back)</u>		
W 55	Natural aluminium single sash butt hinged openable door with middle rail and fully panelled with 2.5mm thick single side laminated plywood, (two pannels kept back to back), neoprene and wooled beading, gaskets, pop rivots, threaded bar with nut and approved quality lock, butt hinges, door handle with cap nut. As per the members , sizes and details given in Drawing No:- AR/TYPE PLAN/DOORS & WINDOWS/ 2015.04.01/ DETAIL 19 - D21	Sq.ft.	1,550.00
W 56	Natural aluminium single sash sliding door with middle rail and fully panelled with 2.5mm thick single side laminated plywood, (two pannels kept back to back), neoprene and wooled beading, gaskets, pop rivots, threaded bar with nut, flush bolts, rollers and approved quality lock, door handle with cap nut. As per the members , sizes and details given in Drawing No:- AR/TYPE PLAN/DOORS & WINDOWS/ 2015.04.01/ DETAIL 19 - D22	Sq.ft.	1,480.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
	<u>TYPE-II - Partition Door Panelled with one part glazing and other part with laminated plywood (two sheets kept back to back)</u>		
W 57	Natural aluminium single sash butt hinged openable door with middle rail one part panelled with 2.5mm thick single side laminated plywood, two panels kept back to back and other part glazed with 5mm thick clear glass panes, neoprene and woold beading, gaskets, pop rivots, threaded bar with nut and approved quality lock, butt hinges, door handle with cap nut. As per the members , sizes and details given in Drawing No:- AR/TYPE PLAN/DOORS & WINDOWS/2015.04.01/ DETAIL 19 - D23	Sq.ft.	1,560.00
W 58	Natural aluminium single sash sliding door with middle rail, one part panelled with 2.5mm thick single side laminated plywood, two panels kept back to back and other part panelled with 5mm thick clear glass panes, neoprene and woold beading, gaskets, pop rivots, threaded bar with nut, flush bolts, rollers and approved quality lock, door handle with cap nut. As per the members , sizes and details given in Drawing No:- AR/TYPE PLAN/DOORS & WINDOWS/ 2015.04.01/ DETAIL 19 - D24	Sq.ft.	1,400.00
	<u>Door Pull Handle</u>		
W 59	Supplying and fixing " Hexzagon type " model no. LS0763BEND TYPE HANDLE 300 MMstainless steel door pull handle fixed complete to working order.	Nr.	5,170.00
	<u>Floor Hinge</u>		
W 60	Supplying & fixing heavy duty floor hinge of Union Brand Model no. - 8300 or approved equivalent with one year written warranty from authorized agent.	Nr.	27,810.00
	<u>Door closer</u>		
W 61	Supplying & fixing heavy duty door closer of Union Brand & Model no. 8573 or approved equivalent.	Nr.	11,575.00
	<u>IRON GRILL</u>		
W 62	Supply , fabrication and installation of welded Diamond shaped Iron grill, consisting 20mm x 6mm thick flat iron frame and 5 mm dia M.S. rods at 3" centers to form 3" x 6" diamond shape grill. Rate shall include for fixing with No.10, 1" counter sunk iron screws and application of two coats of Anti- Corrosive paint and one coat of enamel paint. (Based on 2'-0"x4'-0" area) Details as per the Drawing No:- AR/DETAIL DRG/2011/08/22- Type 1	Sq.ft.	600.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
W 63	Supply , fabrication and installation of welded Diamond shaped iron grill, consisting 20mm x 6mm thick flat iron frame, mullions and isolated mid rails without intermediate joints, 5 mm dia. M.S. rods welded to form 3" x 6" diamond shaped isolated panels. Rate shall include for fixing with No.10, 1" counter sunk iron screws and application of two coats of Anti-Corrosive paint and one coat of enamel paint.(Based on 9'-0"x6'-0" area) Details as per the Drawing No:- AR/DETAIL DRG/2011/08/22- Type 2	Sq.ft.	620.00
W 64	Supply , fabrication and installation of welded openable Iron grill door and fixed Iron grill to window. The door frame fabricated with 38mm x 38mm x 6mm thick angle iron to an over-all size of 3'-0" x 9'-0" high inclusive of 2'-3" high Iron grill on top formed with 5mm dia. m.s.rods welded to form 3" x 6" diamond shape. Door sash outer frame fabricated with 25mm x 25mm x 3mm thick hollow sections and two cross members, top part of the sash fixed with 5 mm dia. m.s.rods welded to form 3" x 6" diamond shape and bottom part fixed with gauge 22 G.I. sheet, sash fixed to the frame with 3 No. 4" x 3" M.S. butt hinges and locking arrangement comprising of a Iron tower bolt and Hasp & plate. The fixed window grill fabricated with 20mm x 6mm thick flat iron outer frame and two mullions, 6 mm dia. m.s.rods welded to form 3" x 6" diamond shape, All details as per Drawing No:- AR/DETAIL DRG/2011/08/22- Type 3 Rate shall include the formation of 9" x 9" x 6" holes to insert the door frame legs filled with grade 20 concrete , application of two coats of anti-corrosive paint and one coat of enamel paint.	Sq.ft.	650.00
W 65	Supply , fabrication and installation of welded openable Iron grill door without window. The door frame fabricated with 38mm x 38mm x 6mm thick angle iron to an over-all size of 3'-0" x 9'-0" high inclusive of 2'-3" high Iron grill on top formed with 5mm dia. m.s.rods welded to form 3" x 6" diamond shape. Door sash outer frame fabricated with 25mm x 25mm x 3mm thick hollow sections and two cross members, top part of the sash fixed with 5mm dia. m.s.rods welded to form 3" x 6" diamond shape and bottom part fixed with gauge 22 G.I. sheet, sash fixed to the frame with 3 No. 4" x 3" M.S. butt hinges and locking arrangement comprising of a Iron tower bolt and Hasp & plate. All details as per Drawing No:- AR/DETAIL DRG/2011/08/22- Type 3 Rate shall include the formation of 9" x 9" x 6" holes to insert the door frame legs filled with grade 20 concrete , application of two coats of anti-corrosive paint and one coat of enamel paint.	Sq.ft.	850.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
W 66	Welded Iron grill of rectangular pattern , consisting of a flat Iron frame of 25mm x 6mm thick with out intermediate joints, 2 nos of 25mm x 6mm thick horizontal members , 12mm dia. M.S. round bars as vertical members @ 4" c/c , vertical round bars to be drilled through horizontal flat Irons, fixed complete with counter sunk screws and rawl plugs to the masonry opening or timber. Rate shall include for applying two coats of anti-corrosive paint and one coat of enamel paint. (for window openings of size 2'-0" x 4'-0"). Details as per the Drawing No:- AR/DETAIL DRG/2010/01/10 & Sheet No. 05	Sq.ft.	1,085.00
	<u>COLLAPSIBLE DOOR</u>		-
W 67	Fabricating and Installation of open type collapsible Iron door consisting with 20mm x 6mm flat iron codling cover and necessary screws, etc.. Rate shall include for applying two coats of anti-corrosive paint.	Sq.ft.	1,450.00
	<u>ROLLER DOORS</u>		-
W 68	Supply and fixing natural aluminium roller door consisting aluminium slats to the thickness of 1.2mm, centre bar, pulleys, side plate with the racers, fabricating the mechanical box with M.S. square tubes and covering the box and fixing on site with the bottom bars and necessary U channels. (Approx. Size: 10'-6" width x 9'-8" high)	Sq.ft.	900.00
W 69	Supply and fixing the motor with two remotes for the roller door.	Item	37,210.00
	<u>MILD STEEL BALUSTRADE</u>		
W 70	Supplying , fabricating & fixing mild steel and timber hand rail, consisting of 16mm M.S. round bars @ 4" c/c as vertical members fixed to steps with the 8" x 1 1/2" x 12mm thick M.S. plate connecting with 2 nos of 10mm anchor bolts, 4" x 2" approved timber rail fixed to 30mm x 6mm flat iron aling to the stair & 20mm x 6mm flat iron as the horizontal members to connecting the two vertical members finished smooth and work complete in order with necessary nuts & bolts. Rate Shall include for applying two coats of anti-corrosive paint and two coats of enamel paints. All sizes & details as per Drawing No:- AR/DETAIL DRG/2010/01/10 & Sheet No. 03 - Type 1-A	L.ft.	2,990.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
W 71	Supplying , fabricating & fixing mild steel and timber hand rail, consisting of 16mm M.S. round bars @ 4" c/c as vertical members fixed to steps with the 8" x 1 1/2" x 12mm thick M.S. plate connecting with 2 nos of 10mm anchor bolts, 4" x 2" approved timber decorative rail fixed to 30mm x 6mm flat iron aling to the stair & 20mm x 6mm flat iron as the horizontal members to connecting the two vertical members finished smooth and work complete in order with necessary nuts & bolts. Rate Shall include for applying two coats of anti-corrosive paint and two coats of enamel paints. All sizes and details as per Drawing No:- AR/DETAIL DRG/2010/01/10 & Sheet No. 03 - Type 1-B	L.ft.	3,225.00
W 72	Supplying , fabricating & fixing GI pipe hand rail, consisting of 2" dia. GI pipe as hand rail and 3/4" dia. GI pipes @ 11" c/c as vertical members fixed to steps with the 4" x 1 1/2" x 12mm thick M.S. plate connecting with 2 nos of 10mm anchor bolts, work complete in order with necessary nuts & bolts. Rate Shall include for applying two coats of anti-corrosive paint and two coats of enamel paints. All sizes and details as per Drawing No:- AR/DETAIL DRG/2010/01/10 & Sheet No. 04 - Type 2	L.ft.	1,965.00
W 73	Supplying , fabricating & fixing GI pipe hand rail top of the 9" thick brick wall (Brick work measured separately) consisting of 2" dia. GI pipe as hand rail and fixed to wall with 30mm x 6mm flat iron @ 18" c/c work complete in order. Rate Shall include for applying two coats of anti-corrosive paint and two coats of enamel paints. All sizes and details as per Drawing No:- AR/DETAIL DRG/2010/01/10 & Sheet No. 04 - Type 3	L.ft.	1,135.00
W 74	Fabricate, supply and fix stainless steel pipe hand rail at staircase comprising 1 1/4" dia. uprights at 1'-0" c/c, 2" dia. top rail and 1" dia. middle rail. Uprights fixed to steps with 100 x 100 x 8mm thick S.S. base plate with 8mm dia. S.S. nuts and bolts complete as per working order.	L.ft.	4,135.00
	<u>Y - STRUCTURAL STEEL WORK</u>		
Y 01	Supplying and fixing 50mm x 50mm x 6mm thick angle iron purling at maximum spacing of 4'-0" centers upto maximum span of 10'-0" including nuts, necessary bolts & washers etc. and application of two coats of Anti-Corrosive paint.	L.ft.	350.00
Y 02	Supplying and fixing 65mm x 65mm x 6mm thick angle iron purling at maximum spacing of 4'-0" centers maximum span of 11'-0" (not less than 10'-0") for a asbestos purling roof without covering tiles on top. Rate shall include for necessary nuts, bolts & washers,etc. and applying two coats of Anti-Corrosive paint.	L.ft.	400.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
Y 03	Supplying and fixing 75mm x 75mm x 6mm thick angle iron purling at maximum spacing of 4'-0" centers maximum span of 12'-0" (not less than 11'-0") for a asbestos purling roof without covering tiles on top. Rate shall include necessary nuts, olds & washers etc, and applying two coats of Anti -Corrosive paint.	L.ft.	470.00
Y 04	Supplying and fixing 100mm x 50mm x 6mm thick channel Iron purling up to 14'-0" span at 4'-0" c/c. Rate shall include for applying two coats of anti-corrosive paint.	L.ft.	670.00
Y 05	Supplying and fixing 125mm x 65mm x 6mm thick channel Iron purling up to 16'-0" span at 4'-0" c/c. Rate shall include for applying two coats of anti-corrosive paint.	L.ft.	840.00
Y 06	Supplying and fixing 150mm x 75mm x 6mm thick channel Iron purling up to 18'-0" span at 4'-0" c/c. Rate shall include for applying two coats of anti-corrosive paint.	L.ft.	1,050.00
Y 07	Supply, installation and fixing of angle iron sleepers over the walls to support purlins formed with 50mm x 50mm x 6mm thick angles welded back to back with 75mm x 50mm x 10mm thick seperators @ 2'-0" c/c, fixed to the concrete pad laid on the wall with 9" x 6" x 10mm thick base plate and 2 No. 10mm dia. bolts @ 6'-0" c/c. Rate shall include for applying two coats of anti-corrosive paint and one coat of enamel paint.	L.ft.	820.00
Y 08	Supply, installation and fixing of angle iron sleepers over the walls to support purlins formed with 65mm x 65mm x 6mm thick angles welded back to back with 75mm x 65mm x 10mm thick seperators @ 2'-0" c/c, fixed to the concrete pad laid on the wall with 9" x 6" x 10mm @ 6'-0" c/c. thick base plate and 2 No. 10mm dia. bolts. Rate shall include for applying two coats of anti-corrosive paint and one coat of enamel paint.	L.ft.	961.00
Y 09	Supply, installation and fixing of angle iron sleepers over the walls to support purlins formed with 75mm x 75mm x 6mm thick angles welded back to back with 75mm x 75mm x 10mm thick seperators @ 2'-0" c/c, fixed to the concrete pad laid on the wall with 9" x 6" x 10mm thick base plate @ 6'-0" c/c.and 2 No. 10mm dia. bolts. Rate shall include for applying two coats of anti-corrosive paint and one coat of enamel paint.	L.ft.	1,157.00
	<u>Mild steel Roof truss</u>		

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
Y 10	Mild steel Roof truss for Calicut tile roofing 20'-0" (6.0m) span centre to centre, Maximum spacing 10'-0" , 25 ⁰ pitch maximum and 18 ⁰ pitch minimum, with 4'-0" wide eaves at both sides. Consisting of 2 Nos. 50mm x 50mm x 6mm thick angles as top and bottom chords, 1 No. 50mm x 50mm x 6mm thick angles as struts & ties, 10mm thick gusset plates, base plates & sole plates, mild steel rag bolts, purling cleats, etc.. & all details as per the Drawing No:- WP/TYPE/STR/2015/RT1. Rate shall include for fabricating , transporting , hoisting , fixing in position and applying two coats of Zinc Phosphate paint.	Nr.	71,085.00
Y 11	Mild steel Roof truss for Asbestos roofing 20'-0" (6.0m) span centre to centre, Maximum spacing 10'-0" , 12 ⁰ pitch with 4'-0" wide eaves at both sides. Consisting of 2 Nos. 50mm x 50mm x 6mm thick angles as top and bottom chords, 1 No. 50mm x 50mm x 6mm thick angles as struts & ties, 10mm thick gusset plates, base plates & sole plates, mild steel rag bolts, purling cleats, etc.. & all details as per the Drawing No:- WP/TYPE/STR/2015/RT2. Rate shall include for fabricating , transporting , hoisting , fixing in position and applying two coats of Zinc Phosphate paint.	Nr.	70,345.00
Y 12	Mild steel Roof truss for Calicut tile roofing 25'-0" (7.5m) span centre to centre, Maximum spacing 10'-0" , 25 ⁰ pitch maximum and 18 ⁰ pitch minimum, with 4'-0" wide eaves at both sides. Consisting of 2 Nos. 50mm x 50mm x 6mm thick angles as top and bottom chords, 1 No. 50mm x 50mm x 6mm thick angles as struts & ties, 10mm thick gusset plates, base plates & sole plates, mild steel rag bolts, purling cleats, etc.. & all details as per the Drawing No:- WP/TYPE/STR/2015/RT3. Rate shall include for fabricating , transporting , hoisting , fixing in position and applying two coats of Zinc Phosphate paint.	Nr.	73,320.00
Y 13	Mild steel Roof truss for Asbestos roofing 25'-0" (7.5m) span centre to centre, Maximum spacing 10'-0" , 12 ⁰ pitch with 4'-0" wide eaves at both sides. Consisting of 2 Nos. 50mm x 50mm x 6mm thick angles as top and bottom chords, 1 No. 50mm x 50mm x 6mm thick angles as struts & ties, 10mm thick gusset plates, base plates & sole plates, mild steel rag bolts, purling cleats, etc.. & all details as per the Drawing No:- WP/TYPE/STR/2015/RT4. Rate shall include for fabricating , transporting , hoisting , fixing in position and applying two coats of Zinc Phosphate paint.	Nr.	72,615.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
Y 14	Mild steel Roof truss for Calicut tile roofing 30'-0" (9.0m) span centre to centre, Maximum spacing 10'-0", 25° pitch maximum and 18° pitch minimum, with 4'-0" wide eaves at both sides. Consisting of 2 Nos. 65mm x 65mm x 6mm thick angles as top and bottom chords, 2 Nos. 50mm x 50mm x 6mm thick angles as struts , 1 No. 65mm x 65mm x 6mm thick angles as ties, 10mm thick gusset plates, base plates & sole plates, mild steel rag bolts, purling cleats, etc.. & all details as per the Drawing No:- WP/TYPE/STR/2015/RT5. Rate shall include for fabricating , transporting , hoisting , fixing in position and applying two coats of Zinc Phosphate paint.	Nr.	116,215.00
Y 15	Mild steel Roof truss for Asbestos roofing 30'-0" (9.0m) span centre to centre, Maximum spacing 10'-0", 12° pitch, with 4'-0" wide eaves at both sides. Consisting of 2 Nos. 65mm x 65mm x 6mm thick angles as top and bottom chords, 2 Nos. 50mm x 50mm x 6mm thick angles as struts , 1 No. 65mm x 65mm x 6mm thick angles as ties, 10mm thick gusset plates, base plates & sole plates, mild steel rag bolts, purling cleats, etc.. & all details as per the Drawing No:- WP/TYPE/STR/2015/RT6. Rate shall include for fabricating , transporting , hoisting , fixing in position and applying two coats of Zinc Phosphate paint.	Nr.	109,636.00
	<u>Steel Scaffolding Set</u>		
Y 16	Supplying and erecting steel scaffolding sets. Rate to include for dismantling same after completion of work.	Set per day	111.00
	<u>Zinc Alum Roofing</u>		
Y 17	Supplying and fixing zinc aluminium color bond standard ridge cap (Medium Size Girth 470) to existing sheet roof using new fasteners.	L.ft.	403.00
Y 18	Supplying and fixing zinc aluminium color bond standard ridge cap (Small Size Girth 305) to existing sheet roof using new fasteners.	L.ft.	301.00
Y 19	Supply and fix proprietary coated zincalum gutter (minimum base metal thickness of sheet 0.4mm and minimum total thickness 0.47mm & medium size - Girth 470) complete with end caps, running joints etc. All joints to be properly connected with an adequate side laps not less than 225mm length and with sealant to ensure water tightness along the entire length of the gutter and including angle iron gutter brackets 25mm x 25mm x 3mm at 450mm centers with an adequate slope as directed and including application of two coats of each anticorrosive paint and enamel paint to all steel surfaces to match the gutter fix in position.(Inner size of gutter 150mm x 175mm)	L.ft.	770.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
Y 20	Supply and fix proprietary coated zincalum square down pipe (medium size-Girth 470 & minimum base metal thickness of sheet 0.40mm and minimum total thickness 0.47mm) complete with necessary socket , elbow & bend. All joints to be properly connected and with sealant to ensure water tightness along the entire length. Down pipe brackets @ 1.0m c/c .	L.ft.	550.00
Y 21	Polyester coated Aluminium composite boarding of 4mm thickness fixed to external wall boxed out at down pipes including sills, flashing, removable sections at access points such as cleaning eyes etc. completely covering the surface as directed by the Engineer.	Sq.ft.	390.00
Y 22	Supply and fix PvdF coated Aluminium Composite wall cladding of 4mm thickness including inner frame work to vertical walls up to 30'-0". Rate shall include for scaffolding.	Sq.ft.	575.00
Y 23	Supply and lay 3mm thick double sided aluminium foil heat reflecting material to underside of roof, supported with Gauge 18, 3" x 3" GI mesh and complete to working order. Rate shall include for scaffolding.	Sqr.	3,585.00
Y 24	Supply and fix zinc alum profile roofing sheet (minimum base metal thickness of 0.4mm) and minimum total thickness of 0.47mm, laid on existing purlings with joints to be properly connected with an adequate side lap to ensure water tightness along the entire length and complete to working order.	Sqr.	19,445.00
Y 25	Supply and fixing 0.47 mm zinc alum valance board 12" thick and complete to working order. Rate shall include for scaffolding.	L.ft.	288.00
Y 26	Supply and fixing high tensile Galvanized iron "C" channels of 100 x 50 x 15 x 2.0mm thick	L.ft.	460.00
Y 27	Supply and fixing high tensile Galvanized iron "C" channels of 125 x 60 x 20 x 2.0mm thick	L.ft.	486.00
Y 28	Supply and fixing high tensile Galvanized iron "C" channels of 150 x 65 x 20 x 2.0mm thick	L.ft.	567.00
	<u>Z - MAINTANANCE WORK</u>		
	<u>Demolishing</u>		
Z 01	Demolishing reinforced cement concrete in suspended floors up to 4" thick , removing reinforcement and clearing debris.	Cube	42,545.00
Z 02	Demolishing cement concrete and clearing debris in floors from 4" to 6" thick floors.	Cube	19,440.00
Z 03	Demolishing reinforced cement, concrete in lintol of 9" x 6" removing reinforcement and clearing debris.	L.ft.	83.00
Z 04	Demolishing reinforced cement, concrete in lintol of 4 1/2"x 6" removing reinforcement and clearing debris.	L.ft.	65.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
Z 05	Demolishing brick piers, stacking brick and clearing debris away.	Cube	2,781.00
Z 06	Demolishing 9" thick brick walls stacking brick and clearing debris away.	Cube	2,781.00
Z 07	Demolishing 4 1/2" thick brick walls stacking brick and clearing debris away.	Sqr.	1,251.00
Z 08	Demolishing 3" thick brick paved floors and clearing debris away.	Sqr.	1,620.00
Z 09	Demolishing drains and clearing debris away.	L.ft.	54.00
Z 10	Demolishing rubble masonry built in cement and sand, stacking rubble and clearing debris away.	Cube	4,450.00
Z 11	Demolishing floor tiles and clearing debris away.	Sqr.	3,780.00
Z 12	Demolishing wall tiles and clearing debris away.	Sqr.	3,059.00
Z 13	Chipping cement rendering and clearing debris away.	Sqr.	2,430.00
Z 14	Chipping cement plastering and clearing debris away.	Sqr.	1,669.00
Z 15	Chipping lime plastering and clearing debris away.	Sqr.	834.00
Z 16	Chipping cement plaster in soffits and clearing debris away.	Sqr.	2,503.00
	<u>Masonry work - Small Quantities Up to 1 Square</u>		
Z 17	4 1/2" thick brick work in cement and sand 1:5 up to a 1 square.	Sqr.	23,860.00
Z 18	1/2" thick Rendering in cement and sand 1:3 up to a 1 square finished smooth with neat cement slurry and colour pigments.	Sqr.	9,848.00
Z 19	5/8" thick Plastering to walls in cement, equivalent chemical product (Febmix) and sand 1:5 up to a 1 square finished semi-rough with wooden float. (Sand to be sieved).	Sqr.	9,497.00
Z 20	5/8" thick Plastering to walls in cement, lime or equivalent chemical product (Febmix) and sand 1:1:5 up to a 1 square finished smooth with lime putty. (Sand to be sieved).	Sqr.	12,432.00
	<u>Roof work</u>		
Z 21	Removing and stacking calicut tile or half round tile from roof in single storied building.	Sqr.	1,080.00
Z 22	Removing and stacking calicut tile or half round tile from roof in two storied building.	Sqr.	1,669.00
Z 23	Removing and stacking calicut tile or half round tile from roof in three storied building.	Sqr.	2,225.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
Z 24	Removing and stacking corrugated asbestos sheet from roof in single storied building.	Sqr.	834.00
Z 25	Removing and stacking corrugated asbestos sheet from roof in two storied building.	Sqr.	1,112.00
Z 26	Removing and stacking corrugated asbestos sheet from roof in three storied building.	Sqr.	1,390.00
Z 27	Removing roof tiles/asbestos sheets and timber frame work, stacking serviceable materials and clearing debris away in single storied building.	Sqr.	2,225.00
Z 28	Removing roof tiles/asbestos sheets and timber frame work, stacking serviceable materials and clearing debris away in two storied building.	Sqr.	2,781.00
Z 29	Removing roof tiles/asbestos sheets and timber frame work, stacking serviceable materials and clearing debris away in three storied building.	Sqr.	3,337.00
Z 30	Removing and stacking calicut ridge tile.	L.ft	67.00
Z 31	Removing and stacking asbestos ridging.	L.ft	56.00
Z 32	Removing 2" x 1" reepers , 2" x 2" battens ,stacking at site and clearing debris away in single storied building.	L.ft	11.00
Z 33	Removing 2" x 1" reepers , 2" x 2" battens ,stacking at site and clearing debris away in two storied building.	L.ft	17.00
Z 34	Removing 2" x 1" reepers , 2" x 2" battens ,stacking at site and clearing debris away in three storied building.	L.ft	22.00
Z 35	Removing 2" x 4" rafters , 4" x 3" wall plates , stacking at site and clearing debris away in single storied building.	L.ft	22.00
Z 36	Removing 2" x 4" rafters , 4" x 3" wall plates , stacking at site and clearing debris away in two storied building.	L.ft	28.00
Z 37	Removing 2" x 4" rafters , 4" x 3" wall plates , stacking at site and clearing debris away in three storied building.	L.ft	33.00
Z 38	Removing 5" x 3" / 5" x 2" purlings , stacking at site and clearing debris away in single storied building.	L.ft	33.00
Z 39	Removing 5" x 3" / 5" x 2" purlings , stacking at site and clearing debris away in two storied building.	L.ft	39.00
Z 40	Removing 5" x 3" / 5" x 2" purlings , stacking at site and clearing debris away in three storied building.	L.ft	45.00
Z 41	Removing and stacking valance/Barge board materials and clearing debris away in single storied building.	L.ft	21.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
Z 42	Removing and stacking valance/Barge board materials and clearing debris away in two storied building.	L.ft	28.00
Z 43	Removing and stacking eaves gutter from roof of single storied buildings.	L.ft	28.00
Z 44	Removing and stacking eaves gutter from roof of two storied building.	L.ft	43.00
Z 45	Removing and stacking down pipes from roof of single storied building.	L.ft	27.00
Z 46	Removing and stacking down pipe from roof of two storied building.	L.ft	35.00
Z 47	Removing and stacking G.I. Valley gutter and flashing.	L.ft	56.00
Z 48	Re-laying available calicut tiles on the roof in single storied building.	Sqr.	1,112.00
Z 49	Re-laying available calicut tiles on the roof in two storied building.	Sqr.	1,390.00
Z 50	Re-laying available calicut tiles on the roof in three storied building.	Sqr.	1,669.00
Z 51	Re-laying available asbestos sheets on the roof in single storied building.	Sqr.	1,792.00
Z 52	Re-laying available asbestos sheets on the roof in two storied building.	Sqr.	2,240.00
Z 53	Re-laying available asbestos sheets on the roof in three storied building.	Sqr.	2,688.00
Z 54	Fixing available Reepers with wire nails.	L.ft	13.00
Z 55	Fixing sorted out & cut to required size available timber to roof or other carpentry work.	C.ft	257.00
Z 56	Fixing available corrugated asbestos sheet with hooks , nuts and bolts to roofing.	Sqr.	3,358.00
Z 57	Supply and fixing hooks, nuts & bolts for existing asbestos roof.	Nr.	44.00
Z 58	Ridge tile bedded in lime cement motor 1:1:4 and coloured to match tiles.(Ridge tile available at site)	L.ft	157.00
Z 59	Fixing of available barge/Valance boards & fascia including cutting and minor repairs.	L.ft	55.00
Z 60	Refixing existing G.I. Valley gutter and flashing including repairing any damaged areas.	L.ft	171.00
Z 61	Fixing of existing gutter and down pipe including brackets and repairing any damages to the wall.	L.ft	79.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
	<u>Ceiling work</u>		
Z 62	Removing asbestos ceiling sheets including timber frame work, stacking serviceable materials and clearing debris away in single storied building.	Sqr.	2,565.00
Z 63	Removing asbestos ceiling sheets including timber frame work, stacking serviceable materials and clearing debris away in two storied building.	Sqr.	3,677.00
Z 64	Removing ceiling timber frame work, stacking serviceable materiel and clearing debris away in single storied buildings.	Sqr.	618.00
Z 65	Removing ceiling timber frame work, stacking serviceable materiel and clearing debris away in two storied buildings.	Sqr.	896.00
Z 66	Removing existing ceiling sheet, stacking materials at the site and clearing debris away.	Sqr.	1,452.00
Z 67	Renewing in small quantities of 6" x 5/8" - 3/4" lunumidella ceiling including scaffolding up to 30'-0" hight.	L.ft	130.00
Z 68	Fixing available lunumidella ceiling planks with new wire nails.	Sqr.	4,998.00
Z 69	Supplying and fixing 1 1/2" x 1/2" thick Beading , Halmilla or equivalent, planning & chamfering complete with brass screws.	L.ft.	88.00
	<u>Doors & Windows</u>		
Z 70	Removing and stacking door sash only up to 40 S.ft from existing walls.	Nr.	300.00
Z 71	Removing and stacking door sash only over 40 S.ft from existing walls.	Nr.	450.00
Z 72	Removing and stacking door or window frame size up to 40 S.ft from existing walls.	Nr.	2,160.00
Z 73	Removing and stacking door or window frame size over 40 S.ft from existing walls.	Nr.	3,240.00
Z 74	Removing and stacking window sash only up to 40 S.ft from existing walls.	Nr.	300.00
Z 75	Removing and stacking window sash only over 40 S.ft from existing walls.	Nr.	450.00
Z 76	Removing and stacking trellis work	Sq.ft.	29.00
Z 77	Removing and stacking glass panes in doors, windows and fanlights.	Sq.ft.	90.00
Z 78	Renewing in short lengths with approved timber in existing door or window frames .	L.ft.	800.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
Z 79	Door or window frame altering existing rebate fillet using approved quality timber with screws and fixing available sashes.	Nr.	5,156.00
Z 80	Fixing available door or window frame.	L.ft.	41.00
Z 81	Fixing available door or window sash.	Sq.ft.	34.00
Z 82	Removing damage sashes of door or window and preparing & re-fixing.	Per sash	612.00
Z 83	Supply and fixing Trellis work 1/2" x 1/2" laths with 2" apart diagonally, horizontally or vertically on existing timber framing.	Sq.ft.	433.00
Z 84	Supply and fixing 3mm thick glass panes for the existing door / window or fanlight sashes with approved timber beading.	Sq.ft.	310.00
	<u>Sanitary</u>		
Z 85	Removing wash basin , sink or urinals including all fittings and making walls good.	Nr.	726.00
Z 86	Removing squatting pan or standing types water closet with plugging sewer connection and repairing the wall & floor.	Nr.	2,645.00
Z 87	Disconnecting flushing cistern and removing with plugging water connection and making good of all damaged walls, floors & etc.	Nr.	2,492.00
Z 88	Removing 1/2" to 1 1/2" dia. bib tap or stop cock.	Nr.	100.00
Z 89	Fixing available ball valve.	Nr.	300.00
Z 90	Fixing lavatory type basin to existing brackets. (Tap , waste pipe and basin are available)	Nr.	2,472.00
Z 91	Fixing of wash basin, leveling and connecting to existing water connections and making good (Basin, bracket and fittings are available)	Nr.	3,287.00
Z 92	Repairing bib taps and stop cocks by fixing leather washers.	Nr.	309.00
Z 93	Removing & repairing pillar tap and re-fixing to the wash basin carefully without any damaged.	Nr.	510.00
Z 94	Supply & fixing Universal bend of "Rocell" brand & model "Vario Joint" or approved equivalent.	Nr.	1,548.00
	<u>Painting</u>		
Z 95	Removing painting from walls and clearing debris away.	Sqr.	1,112.00
Z 96	Removing enamel paint from door or window frame and clearing debris away.	Sqr.	2,225.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
Z 97	Removing paint from painted glass panes with paint remover.	Sq.ft.	78.00
Z 98	Removing water proof layers and/or hot bitumen from concrete floors or flat roof and clearing debris away.	Sqr	4,320.00
Z 99	Painting ceiling beading with two coats of enamel paint.	L.ft	21.00
Z 100	Painting existing ceiling fan with one coat of anti-corrosive paint & two coats of enamel paint including removing corroded scale and wire brushing.	Nr.	1,114.00
	<u>Other</u>		
Z 101	Supplying and placing 4" dia.PVC (Type 250) wheel holes.	L.ft	136.00
Z 102	Supplying and placing 2" dia.PVC (Type 400) wheel holes.	L.ft	153.00
Z 103	Removing existing mortice lock repairing and re-fixing.	Nr.	990.00
Z 104	Removing and stacking partitions at site including making good to walls & floors.	Sq.ft.	34.00
	<u>AA - MISCELLANEOUS</u>		
	The following AA 01 & AA 02 items are exclusively for estimating purposes for which a standard work norm is not immediately available and at the same time it is impossible to arrive at a realistic break-up of labour component involved at the time of preparation of the estimate. The rate is not to be used for engaging labourers on routine work and the mere appearance of this rate on BSR is not a sanction to pay the daily labourers at this rate. Skillness of the Craftman to be verified by a trade test certificate at the time of engagement.		
AA 01	Engaging special skilled labour services in the trades of fitter, electrician, welder, mason, carpenter, bar bender, painter on 8 hour day basis. (Rate Include 20% over head & profit)	Per 8 Hour day Per Person	2,640.00
AA 02	Engaging labour services in un-skilled category of any type of manual work on a 8 hour day basis. (Rate Include 20% over head & profit)	Per 8 Hour day Per Person	2,160.00
AA 03	Pumping water using 2" dia. water pump. (Rate Include 20% over head & profit)	Per 8 Hour Day	4,318.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
	<u>P.V.C. Coated Chain Link Fence</u>		
AA 04	Supplying & fixing PVC coated G.I. chain link fence (2" x 2") of gauge 10 on to existing GI pipe and flat iron frame (GI pipe & flat iron measured separately) complete with tension J bolts and tension cords.	Sq.ft.	129.00
AA 05	Supplying and fixing 2" dia.x 2.3mm thick Medium quality GI pipe 8'-0" clear height with 1'-0"x 1'-0"x 2'-0" cement concrete base 1:2:4 (3/4") on R/R masonry / Concrete wall with 1/2" dia. MS rods welded to bottom of G.I. Pipe and drilling 7 Nos. holes to fixed the chain link (chain link measured separately) and fiberglass coping on top. Rate to include for application of one coat of anticorrosive paint and two coats of enamel paint.	L.ft.	370.00
AA 06	Supplying and fixing 3" dia.x 2.9 mm thick Medium quality GI pipe up to 8'-0" clear height above R/R masonry / Concrete wall and 2'-0" length inserted in a 1'-0"x 1'-0"x 3'-0" cement concrete base 1:2:4 (3/4") with 1/2" dia. MS rod welded to bottom of G.I. Pipe and drilling up to 8 Nos. holes to fixed the chain link (chain link measured separately) and fiberglass coping on top. Rate to include for application of one coat of anticorrosive paint and two coats of enamel paint.	L.ft.	640.00
AA 07	Supplying and fixing 20mm x 6mm flat iron to existing GI pipe (GI pipe measured separately) to fix the chain link, Rate inclusive of drilling holes of 6mm dia. at 1' 0" c/c. Rate to include for application of one coat of anticorrosive paint and two coats of enamel paint.	L.ft.	127.00
AA 08	Supplying and fixing 38mm x 38mm x 6mm angle iron horizontal bracings welded to existing GI pipes. Rate to include for application of one coat of anticorrosive paint and two coats of enamel paint.	L.ft.	275.00
AA 09	Supplying and fixing 1" dia. 2mm thick GI pipe horizontal bracings welded to existing GI vertical pipes. Rate to include for application of one coat of anticorrosive paint and two coats of enamel paint.	L.ft.	155.00
	<u>Barbed Wire Fence</u>		
AA 10	Supplying & fixing gauge 14 galvanized barbed wire 6 strands, 3" apart on pre-cast concrete posts with hook bolts including straining. (Concrete Posts paid seperately)	L.ft.	88.00
AA 11	Supplying & fixing pre-cast concrete Intermediate Posts of size Intermediate posts - 5'-9" ht. & (5 3/4" x 5 3/4") - (3" x 3") for 7strands including necessary excavation and errecting the post and concreting the base with 1:3:6(1").	Nr.	1,716.00
AA 12	Supplying & fixing pre-cast concrete End Posts of size (6'-3" ht. & (5" x 5") for 7 strands including necessary excavation and errecting the post and concreting the base with 1:3:6(1").	Nr.	2,532.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
	<u>AB - LANDSCAPING</u>		
	<u>Turfing</u>		
	<u>Note:</u>		
	Depending on the ground conditions and requirements, turfing shall be decided. Following shall be a guide.		
	(a)For landscaping work involving covering gravel areas item AB02 recommend in combination with item AB01.		
	(b) When grass areas are meant for human traffic, item AB03 recommend.(ex. Jogging tracks ,sides)		
	(c) For specific areas item AB04 & AB05 with item AB01.		
AB 01	Remove roots and hard gravel from the area identified for turfing and level or graded to a uniform surface, spread a 150mm thick layer of top vegetable soil comprising of a mixture of earth and coir dust mixed in proportion of 2:1 and raked to a depth of 250-300mm while removing hard gravel pieces.	Sq.ft.	133.00
AB 02	Supply and placing(laying) buffalo grass turves of size not less than 200mm x 200mm x 75mm and laid closed butted to one another while ensuring lateral joints between turves being staggered, where necessary turves shall be pegged to the soil to prevent movement or slippage. Thereafter, turfing shall be compacted, levelled and maintained for a period of there(3) months by watering, weeding and trimming, untill roots are firmly rooted in to the ground.	Sq.ft.	58.00
AB 03	Supplying grass sods of any type grown on any soil and laid on jogging tracks, earth slopes etc; Rate inclusive of levelling the ground and maintaining the same for a period of not less than 3 months .	Sq.ft.	44.00
AB 04	Supplying and Planting Blue grass on a prepared surface and maintaining the grass including daily watering, spreading fertilizer, weeding and trimming for a period of there(3) months.(Rate for ground preparation shall be paid as per item AB 01).	Sq.ft.	82.00
	<u>Note: In case of landscaping work involving, Planting of ball-rooted trees, flower pots and turfing with area of grass turfing under item AB 02 exceeds 2000 sq.ft, item AB05 may be incorporated subject to the approval of Divisional Engineer.</u>		
AB 05	Employing a labourer for maintaing the grass ball-rooted trees and flower pots for a period of 3 months. Rate shall include the cost of water, hiring charges for lawn mover/ grass-cutter machine, trimming with hand- held scissors, weeding, re-planting damaged areas and cost of fertilizer.	Per month	51,030.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
	<u>ROOT BOWLLING OF PLANTS</u>		
AB 06	Supply & Planting maximum 5'-0" girth and 7'-0" - 8'-0" high Atteria Plant with the fertilizing , watering & plant should be maintain for a one week period.	Nr.	8,820.00
AB 07	Supply & Planting maximum 5'-0" girth and 8'-0" - 10'-0" high Ehala with the fertilizing , watering & plant should be maintain for a one week period.	Nr.	13,845.00
AB 08	Supply & Planting maximum 5'-0" girth and 6'-0" - 8'-0" high Araliya Plant with the fertilizing , watering & plant should be maintain for a one week period.	Nr.	8,820.00
AB 09	Supply & Planting maximum 5'-0" girth and 6'-0" - 8'-0" high Kiripalu Plant with the fertilizing , watering & plant should be maintain for a one week period.	Nr.	8,260.00
AB 10	Supply & Planting maximum 5'-0" girth and 7'-0" - 8'-0" high Foxtail Palm with the fertilizing , watering & plant should be maintain for a one week period.	Nr.	8,820.00
AB 11	Supply & Planting maximum 5'-0" girth and 8'-0" - 10'-0" high Kentiya Palm with the fertilizing , watering & plant should be maintain for a one week period.	Nr.	7,700.00
AB 12	Supply & Planting maximum 5'-0" girth and 6'-0" - 8'-0" high Red Palm with the fertilizing , watering & plant should be maintain for a one week period.	Nr.	7,700.00
AB 13	Supply & Planting maximum 5'-0" girth and 6'-0" - 8'-0" high Queen Palm with the fertilizing , watering & plant should be maintain for a one week period.	Nr.	8,820.00
	<u>Paving Blocks</u>		
	Natural Colour Blocks - Item No. AB 14 - AB 19		
AB 14	Supply & paving 80mm thick Rectangular(Approx. size 200mm x 110mm) natural colour precast interlocking paving blocks of 40 N/mm ² compressive strength , on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the high volume traffic areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying.	Sqr.	32,375.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
AB 15	Supply & paving 80mm thick Rectangular (Approx. size 200mm x 110mm) natural colour precast interlocking paving blocks of 30 N/mm ² compressive strength , on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the high volume traffic areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying.	Sqr.	28,975.00
AB 16	Supply & paving 60mm thick Rectangular (Approx. size 200mm x 100mm) natural colour precast interlocking paving blocks of 15 N/mm ² compressive strength , on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the Low volume traffic areas or Pedestrian areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying.	Sqr.	26,140.00
AB 17	Supply & paving 80mm thick Non-Rectangular (Approx. size 220mm x 100mm) natural colour precast interlocking paving blocks of 40 N/mm ² compressive strength , on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the high volume traffic areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying.	Sqr.	32,110.00
AB 18	Supply & paving 80mm thick Non-Rectangular (Approx. size 220mm x 100mm) natural colour precast interlocking paving blocks of 30 N/mm ² compressive strength , on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the high volume traffic areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying.	Sqr.	29,010.00
AB 19	Supply & paving 60mm thick Non-Rectangular (Approx. size 220mm x 110mm) natural colour precast interlocking paving blocks of 15 N/mm ² compressive strength , on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the Low volume traffic areas or Pedestrian areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying.	Sqr.	24,685.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
	Coloured Blocks - Item No. AB 20 - AB 25		
AB 20	Supply & paving 80mm thick Rectangular (Approx. size 200mm x 100mm) coloured precast interlocking paving blocks of 40 N/mm ² compressive strength , on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the high volume traffic areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying.	Sqr.	38,615.00
AB 21	Supply & paving 80mm thick Rectangular (Approx. size 200mm x 100mm) coloured precast interlocking paving blocks of 30 N/mm ² compressive strength , on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the high volume traffic areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying.	Sqr.	36,345.00
AB 22	Supply & paving 60mm thick Rectangular (Approx. size 200mm x 100mm) coloured precast interlocking paving blocks of 15 N/mm ² compressive strength , on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the Low volume traffic areas or Pedestrian areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying.	Sqr.	29,540.00
AB 23	Supply & paving 80mm thick Non-Rectangular (Approx. size 220mm x 110mm) coloured precast interlocking paving blocks of 40 N/mm ² compressive strength , on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the high volume traffic areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying.	Sqr.	36,470.00
AB 24	Supply & paving 80mm thick Non-Rectangular (Approx. size 220mm x 110mm) coloured precast interlocking paving blocks of 30 N/mm ² compressive strength , on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the high volume traffic areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying.	Sqr.	33,170.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
AB 25	Supply & paving 60mm thick Non-Rectangular (Approx. size 220mm x 110mm) coloured precast interlocking paving blocks of 15 N/mm ² compressive strength , on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the Low volume traffic areas or Pedestrian areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying.	Sqr.	27,985.00
	<u>CONCRETE CURB</u>		
AB 26	Supply & paving pre cast concrete Curb size 75mm x 175mm x 540mm of 25 N/mm ² compressive strength laid with 1:3 cement mortar on top of a well compacted earth sub base.	L.ft.	507.00
AB 27	Supply & paving pre cast concrete Curb size 125mm x 255mm x 450mm of 25 N/mm ² compressive strength laid with 1:3 cement mortar on top of a well compacted earth sub base.	L.ft.	685.00
AB 28	Supply & paving pre cast concrete Curb size 125mm x 255mm x 915mm of 25 N/mm ² compressive strength laid with 1:3 cement mortar on top of a well compacted earth sub base.	L.ft.	655.00
	<u>CEMENT FLOWER POTS</u>		
AB 29	Supply & placing of 12" dia. Cement pots 4'-0" high (size approximate)	Nr.	1,020.00
AB 30	Supply & placing of 15" dia. Cement pots 4'-0" high (size approximate)	Nr.	2,400.00
AB 31	Supply & placing of 18" dia. Cement pots 4'-0" high (size approximate)	Nr.	3,000.00
AB 32	Supply & placing of 24" dia. Cement pots 4'-0" high (size approximate)	Nr.	4,800.00
AB 33	Supply & placing of 28" dia. Cement pots 4'-0" high (size approximate)	Nr.	6,600.00
	<u>CEMENT FLOWER POTS OF TAPERING SQUARE CROSS-SECTION</u>		
AB 34	Supply & placing of 8"x8" and 12" x 12" TAPER FLOWER POT 12" high (size approximate)	Nr.	785.00
AB 35	Supply & placing of 10"x10" and 15" x 15" TAPER FLOWER POT 18" high (size approximate)	Nr.	1,044.00
AB 36	Supply & placing of 6"x6" and 12"x12" TAPER FLOWER POT 33" high (size approximate)	Nr.	1,826.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
	<u>CEMENT FLOWER POTS OF SQUARE CROSS-SECTION</u>		
AB 37	Supply & placing of 8" x 8" SQUARE FLOWER POT 12" high (size approximate)	Nr.	1,565.00
AB 38	Supply & placing of 15" x 15" SQUARE FLOWER POT 15" high (size approximate)	Nr.	2,090.00
AB 39	Supply & placing of 18" x 18" SQUARE FLOWER POT 18" high (size approximate)	Nr.	2,610.00
AB 40	Supply & placing of 24" x 24" SQUARE FLOWER POT 24" high (size approximate)	Nr.	4,175.00
	<u>AC - NEW ITEMS</u>		
	<u>Roof Work</u>		
AC 01	Item Deleted	Sqr.	
AC 02	Supplying & Fixing 30mm thick Zinc Aluminium roofing sandwich panel "Glamet" laid on existing purlings with joints to be properly connected with an adequate side lap to ensure water tightness along the entire length and complete to working order as per manufacture's specifications.	Sqr.	65,270.00
	<u>Ceiling</u>		
AC 03	"Daiken" brand mineral fiber ceiling		
	Supply and installation of metal spray type ceiling of 600mm x 600 x 15 mm thick suspended to the slab with hot dipped GI pre - engineered inter - locking main tees (32mm x 24mm) and cross tees (25mm x 24mm) and wall angles expose areas finished with white baked enamel finish and suspended on 04mm dia. adjustable hanger rods with spring clips. Ceiling panels will be Daiken brand 600mm x 600mm x 15mm (thickness) with arevealed edge and complete to working order as per manufacture's specifications. (Prime cost of 2'-0" x 2'-0" Daiken brand ceiling panel is Rs.426.00)	Sq.ft.	384.00
AC 04	Rockfon stone wool acoustic ceiling		
	600mm x 600 x 15 mm thick grid size reveal / bevel type suspended ceiling system, using hot dipped GI pre - engineered inter - locking main tees (32mm x 24mm) and cross tees (25mm x 24mm) and wall angles expose areas finished with white baked enamel finish and suspended on 04mm dia. adjustable hanger rods with spring clips. Ceiling panels will be Rockfon Artic 600mm x 600mm x 15mm (thickness) with arevealed edge and complete to working order as per manufacture's specifications. (Prime cost of 2'-0" x 2'-0" Rockfon Artic is Rs.540)	Sq.ft.	444.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
AC 05	Gypsum ceiling panel (SCG Elephant) or equivalent		
	600mm x 600 x 9 mm thick grid size reveal / bevel type suspended ceiling system using hot dipped GI pre - engineered inter - locking main tees (32mm x 24mm) and cross tees (25mm x 24mm) and wall angles expose areas finished with white baked enamel finish and suspended on 4mm dia. adjustable hanger rods with spring clips. Ceiling panels will be SCG Elephant Gypsum Standard tiles 600mm x 600mm x 9mm (thickness) and complete to working order as per manufacture's specifications. (Prime cost of 8'-0" x 4'-0" SCG Gypsum ceiling panel is Rs.1470.00)	Sq.ft.	300.00
AC 06	Fiber cement ceiling (SCG Elephant Smartboard) or equivalent		
	600mm x 600 x 3.2 mm thick grid size reveal / bevel type suspended ceiling system, using hot dipped GI pre - engineered inter - locking main tees (32mm x 24mm) and cross tees (25mm x 24mm) and wall angles expose areas finished with white baked enamel finish and suspended on 4mm dia. adjustable hanger rods with spring clips. Ceiling panels will be SCG Elephant Smartboard tiles 600mm x 600mm x 3.2mm (thickness) and complete to working order as per manufacture's specifications. (Prime cost of 2'-0" x 2'-0" SCG Elephant Smartboard tile is Rs.240.00)	Sq.ft.	348.00
AC 07	Aluminium Panel Ceiling		
	600mm x 600 x 0.7 mm thick grid size reveal / bevel type suspended ceiling system, using hot dipped GI pre – engineered inter - locking main tees (38mm x 14mm) and cross tees (25mm x 14mm) and wall angles expose areas finished with white baked enamel finish and suspended on 4 mm dia. adjustable hanger rods with spring clips. Ceiling panels will be Compton aluminium tiles 600mm x 600mm x 0.7mm (thickness) with a reveal edge and complete to working order as per manufacture's specifications.. (Prime cost of 2'-0" x 2'-0" aluminium tile is Rs.1730.00)	Sq.ft.	744.00
AC 08	Supplying and fixing 12 mm thick. laminated tempered glass door with frame. Rate including with nut and approved quality hinges, door handle with cap nut.	Sq.ft	3,310.00
AC 09	Supplying and installation of 12 mm thick laminated tempered glass with 2"x 2" Stainless steel frame work. Rate shall include for fixing in position.	Sq.ft	5,185.00
	Plumbing		
AC 10	Supplying and laying 10" dia. P.V.C. waste pipes (type 600) Including cement concrete surrounding 1:3:6: (1") as per Drg. No:- WSS 270 - Type II . (Including 1'-o" high sand filling)	L.ft.	3,030.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
	<u>Drainage</u>		
AC 11	Supplying & fixing heavy duty Cast Iron manhole cover(open type) size of 15" x 15" including cover frame.	No	3,860.00
AC 12	Construction of Shoe drain (in Grade 20 Concrete of width 18" , average thickness 8" , height 12".)	L.ft	1,655.00
	<u>Miscellaneous</u>		
AC 13	Supplying & fixing 3" dia. G.I cap on G.I pipe posts as directed.	No	330.00
AC 14	Supplying and fixing 10-0" 'x3'-6" size green board for class rooms	sq.ft	440.00
AC 15	Compressed soil stabilized un - plastered wall built using earth blocks of size 220mm x 220mm x130mm (allow +_ 10mm only for the length) solid type (confirming to SLS 1382 and subject to the approval of the quality of the blocks, dry compressive strength grade 3.28 up to 4.0 N/mm2, Wet compressive strength - grade 3> 1.2 up to 1.6 N/mm2. Pitting depth (erosion resistance) <10mm) in cement and sand 1:5 mortar to filling the groove and painting the exposed groove to match the bricks. rate shall include for 1/2 thick plaster band to bonding surface of brick & concrete.	Sqr.	47,670.00
	<u>Timber work (in stage areas)</u>		
AC 16	Suplying and Laying 8" x 1 1/4" finished size Kumbuk timber board fixing tongue & groove joint & 2" brass screws as directed including, levelling with timber strips where necessary in stage area.	Sq.ft.	1,950.00
AC 17	Suplying and Fixing 5"x2" Balau, Thulan or Kempas panelled timber (Sawn timber) joist at 2'-0" c/c and Suplying and Laying 8" x 1 1/4" finished size Kumbuk timber board fixing tongue & groove joint & 2" brass screws as directed including, levelling with timber strips where necessary in stage area.	Sq.ft.	2,250.00