



"විශිෂ්ට භාෂ්‍ය සේවාවක් සඳහා ඇප 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.
 "சீராவஸ்தி" கட்டிடம், 32, ஸ்ரீமத் மார்க்கஸ் பரணந்தா மாவத்தை, கோழும்பு 07.
 "Sravasthi Mandiraya", 32, Sir Marcus Fernando Mawatha, Colombo 07.

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මගේ අංකය. } CSO/ENG/1/8/32
 எனது இல. }
 My No. }

ඔබේ අංකය. }
 உமது இல. }
 Your No. }

දිනය. } 2015.04.01
 திகதி. }
 Date. }

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-2015

2015.04.01 දින සිට නැවත දැනුම් දෙන තුරු ගොඩනැගිලි ඉදිකිරීම්, වැඩි දියුණු කිරීම් සහ නඩත්තු කටයුතු සඳහා මුළු පිරිවැය ඇස්තමේන්තු පිළියෙල කර ගැනීමට උපයෝගී කරගත යුතු ගොඩනැගිලි ගාස්තු උපලේඛනයේ පිටපතක් මේ සමඟ එවමි.

02. මෙම ලේඛණයේ ඇතුළත් රේච් මිල ගණන් පිළියෙල කිරීමේදී එකතු කළ අගය මත බදු (VAT), රේච් මිල ගණන් වලට අඩංගු කර නැත. එබැවින් “මුළු පිරිවැය ඇස්තමේන්තු මුදල” ගණනය කිරීමේදී එකතු කළ අගය මත බදු මුදලද, ප්‍රමාණ බිල්පතේ මුළු එකතුවට (එනම් සෘජු ඉදිකිරීම් පිරිවැයට) අමතර මුදලක් වශයෙන් ප්‍රමාණ බිල්පතේ සාරාංශයට ඇතුළත් කළ යුතුය.

03. මෙම ගොඩනැගිලි ගාස්තු ලේඛනයේ සඳහන් මිල ගණන් සකසා ඇත්තේ බස්නාහිර පළාතේ දිස්ත්‍රික් තුනම ආවරණය වන පරිදිය. කෙසේ වුවද, මෙහි සඳහන් ද්‍රව්‍ය වල මිල හා ඔබගේ බල ප්‍රදේශය තුල පවතින මිල ගණන් අතර සැලකිය යුතු වෙනස්කම් තිබේනම්, ඒ පිළිබඳව මා වෙත දැන්වීමට පියවර ගන්න. එවැනි විශේෂ අවස්ථාවකදී යම් බල ප්‍රදේශයකට පමණක් සීමාවන පරිදි මිල ගණන් සංශෝධනය කිරීමට පියවර ගත හැක.

04. මෙම රේච් මිල ගණන් පිළියෙල කර ගැනීමට උපයෝගී කරගෙන ඇති ගොඩනැගිලි ද්‍රව්‍ය සහ භාණ්ඩවල ප්‍රමිතිය (Specification), ගුණාත්මක බව (material 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 ගෙවීම් කිරීමේ දී ඉහත ප්‍රකාශනවල අඩංගු ප්‍රමිතීන්ට අනුකූලව ඉදිකිරීම් සිදුවිය යුතු බව අවධාරණය කරනු කැමැත්තෙමි.

නියෝජ්‍ය ප්‍රධාන ලේකම් பிரதி பிரதம செயலாளர் Deputy Chief Secretary	පාලන நிர்வாகம் Administration Tel: 2693964 Fax: 2669479 dcadmin@cs.wpc.gov.lk	පිරිස් හා පුහුණු ஆளணி மற்றும் பயிற்சி Personnel & Training Tel: 2690058 Fax: 2693952 dcp@cs.wpc.gov.lk	මුදල நிதி Finance Tel: 2693978 Fax: 2679958 csfinance@wpc.gov.lk	පැලසම් திட்டமிடல் Planning Tel: 2693970 Fax: 2676280 dpl@cs@wpc.gov.lk	ඉංජිනේරු பொறியியல் Engineering Tel: 2693968 Fax: 2689900 dseng@wpc.gov.lk	අධ්‍යක්ෂ අභ්‍යන්තර විගණක புள்ளிப்பரணி (உள்ளகம் அமைப்பாளர்) Director Internal Audit Tel: 2689011 Fax: 2689011
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05. මෙම රේඛා 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 සූත්‍ර A හෝ B පදනම් කරගෙන රේඛා මිල පිළියෙල කළ දින සහ ඇස්තමේන්තු කරන දින අතර කාලවකවානුව තුළ සිදුව ඇති මිල විචලනය ගණනය කර ගැනීම සිදුසුය.

06. ගොඩනැගිලි ගාස්තු ලේඛණය පරිශීලනය කිරීමේදී සෑම නිලධාරියෙකු විසින්ම දැන සිටිය යුතු කරුණු සංක්ෂිප්තව “ඇමුණුම් අංක 01”හි ඇතුළත් කර ඇත. තවද, මෙම ගොඩනැගිලි ගාස්තු ලේඛනයේ වැඩ විස්තර සහ රේඛා මිල ගණන් පදනම් කර ගෙන සකස් කර ගන්නා ප්‍රසම්පාදන ලියකියවිලි කට්ටලයට ඇතුළත් විය යුතු අනෙකුත් ලිපි ලේඛන ද ඇමුණුම් අංක 01 හි සඳහන් වේ.

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

ඩබ්.එම්.ඩී.එන්.රණසිංහ,
නියෝජ්‍ය ප්‍රධාන ලේකම් (ඉංජිනේරු),
බස්නාහිර පළාත.

පිටපත්:

- | | | |
|----|---|----------------|
| 1. | ප්‍රධාන ලේකම් (බ.ප.) | : කරු.දැ.ගැ.ස. |
| 2. | බස්නාහිර පළාතේ සියලුම අමාත්‍යාංශ ලේකම්වරුන් | : කරු.දැ.ගැ.ස. |
| 3. | අධ්‍යක්ෂ (අභ්‍යන්තර විගණන) | : කරු.දැ.ගැ.ස. |
| 4. | විගණන අධිකාරී | : කරු.දැ.ගැ.ස. |

ගොඩනැගිලි ගාස්තු උප ලේඛනය -2015

මෙම ඇමුණුම ඉහත ලේඛනය සමඟ නිකුත් කරන ලද මගේ අංක CSO/ENG/1/8/32 හා 2015.04.01 දිනැති ආවරණ ලිපිය හා බැඳේ.

Brief Introduction to the subject matter

For the purpose of procurement, all construction activities are categorized as “works” (as per procurement guide line – 2006). Majority of the procurement of “works” are based on “measure and pay” type contract document.(ICTAD/SDB/01 and ICTAD/SBD/03). The basis of a “measure and pay” type contract is the Bill Of Quantity (BOQ)

Procurement process start with the formation of a “Total Cost Estimate” for an identified “Work”. For the purpose of monetary allocation “Work” is identified as a “Project”.

Brief reference is made in procurement guide line Clause 4.3 for casting a “Total Cost Estimate” for works. Clause 4.3.1 of the hand book to procurement guide line refers to “Direct Construction Cost”

Direct Construction Cost is computed based on a rated Bill of Quantity prepared for the “Works”. The rates that are to be adopted by a government agency in pricing a Bill of Quantity are generally known as “Schedule of Rates” applicable for a particular year. In case of Building trade, these rates are known as “Building Schedule of Rates” and abbreviated as “BSR”. “Direct Construction Cost” (arrived at by pricing a BOQ with valid Building Schedule of rates) would be the basis for comparing bid prices at the time of evaluation in case of competitive bidding.

Also “Direct Construction Cost” will be the initial contract price in case of awarding “Works” to approved societies as per clause 3.9 of procurement guideline.

Bill of Quantities (BOQ) is basically an itemized list of construction activities that are required in order to construct, maintain or repair a specific structure. (In this case a building or an associated work)

A “Bill of Quantity” (abbreviated as “BOQ”) referred to in the “Conditions of Contract” comprise of following.(and hence collectively referred to as BOQ)

- (a) “General preamble Notes” indicate general guidance.
- (b) The “Pricing Preamble Notes” set out the basis on which the rates in BSR have been completed .“Pricing Preamble Notes” also indicate the inclusiveness of the unit prices and the method of measurement that has been adopted in pricing the BSR items.
- (c) Quantified list of items to be priced by a prospective bidder on a “measure and pay” type contract along with a summary sheet to insert the bid price.

Quantified items of a BOQ are grouped under following categories.

- Preliminaries
- Quantified items arrange according to Trade Categories(or any other manner)
- Summary Page

The Bill of Quantities are generally prepared in accordance with the principles of standard method of measurement of works in Sri Lanka; published by the Sri Lanka Standards Institution of SLS 573:1999. However, “General Preambles Notes” and “Pricing Preambles Notes” together with the BOQ units finally define the “method of measurement” applicable to a particular project.

Items described in the “General Preambles Notes” and “Price Preambles Notes” of the Bill of Quantities are deemed to qualify and to form part of every description of measured work items appearing in the BOQ to which they refer including composite descriptions.

In the Bill of Quantities, items of “work” are briefly described. Hence contractor’s rates for all items throughout the BOQ must take account of, and include for, all of the obligations, requirements and specification given in the “General Preambles Notes” , “Pricing Preambles Notes” , “General Specification” , “Special Specification” , “Standards” and “drawings”.

An Estimate is a calculation of the quantities of various items of work, and the expenses likely to be incurred thereon. The total of these probable expenses to be incurred on the Works is known as an “Estimated cost” of the works. Generally the Estimated cost of a Work is a close approximation of its actual cost. The actual cost of the “Works” will be known after construction

When BOQ are prepared by Divisional Engineers for “Works”, the Building schedule of rates help to standardize the preparation of BOQ item descriptions and at the same time will ensure uniformity of estimates prepared by using the BSR. Also BSR along with supporting documents (viz. Preamble Notes) will be a basis for enforcing the minimum quality of work expected.

The BSR has been developed to incorporate majority of the possible items that may arise and/or required for the construction, maintenance and improvement of a Building based on “measure and pay type” (re – measurement) contract. However, a particular building project may require work items that are not covered in the BSR. In such a event, rates for such additional items are to be derived in the manner described elsewhere in this document. Items appearing in the Preamble Notes shall be modified to include any new items.

The item descriptions given in the BSR and relevant notes appearing at the beginning of each trade are short descriptions and the exact scope of work covered by the respective items are fully defined and described in the relevant clauses, of the preamble notes, specification (both general and special), drawings and contract conditions.

The rates in the Building Schedule of Rates shall include all constructional plant, labour, supervision, material, transportation, installation/erection, Head office and site over heads, profit, together with all general risks, liabilities and obligation set out or implied in the Contract Documents (General Preamble Notes, Pricing Preamble Notes, General Specifications, Special Specifications, Standards, Drawings)

The over – head and profit margin adopted is 20%

The Building Schedule of rates has been compiled purely for the purpose of preparing Total Cost Estimates (In the Building construction trade. Please note that “Total Cost Estimate” is sometimes referred to as “Departmental Estimate” or “Engineer’s Estimate”). Every effort has been taken to ensure the realisticness of the rates. However the Building Schedule of Rates may not necessarily reflect the exact market value of material /products/works at every location of the western province or may be stationary in any given time frame. Such variances will be addressed from time to time.

Therefore any discrepancies that may appear in the form of corrections required may be brought to my notice for issuing corrections. Officers are also encouraged to suggest further improvements to this document.

Additional information and guidance will be hosting at the WPC web portal (wpc.gov.lk) under Engineering Organization.

BUILDING SCHEDULE OF RATES

ALL RATES ARE COMMON TO
COLOMBO, GAMPAHA & KALUTARA DISTRICTS
(Rates effective from 01.04.2015 until further notice)



ENGINEERING ORGANIZATION
WESTERN PROVINCE - PROVINCIAL COUNCIL

Note on the Use of BUILDING SCHEDULE OF RATES - 2015

01. Authority to use the BSR - 2015 rates to prepare the Total Cost Estimate for measure and pay type contracts are given by my letter No. CSO/ENG/1/8/32 of 01.04.2015.
02. Each individual item in the B.S.R. have a rate entered against it. The rates are deemed to cover all costs in connection with the proper and successful construction, completion and maintenance of all including, but not limited to completion of all temporary works, furnishing all materials, equipment, providing all construction plant, equipment, tools, sampling, testing, profits, overheads, charges, provision of guarantees, providing all necessary labour and supervision and other cost of whatever nature necessary to fully complete along with establishment charges, overhead charges, profits, taxes, and all other obligations arising out of the Conditions of Contract, but excluding Value Added Tax (VAT).
03. The detailed description of work and materials given in the specification or shown on the drawings are not necessarily repeated or summarized in the B.S.R. item descriptions. Hence, when-ever the B.S.R. item descriptions and rates are used to prepare a rated B.O.Q., reference should be made to the accompanying preamble notes, ICTAD Specifications and Drawings for the full meaning of the descriptions of work to be done and materials and equipment to be used.

The process of determining the Rates of an item is termed as “Analysis of Rates” or “Rate Analysis”.

The rates of a particular item of work depend on the following.

1. Quality of construction material and their cost. For the purpose of analysis, the cost of material are taken as delivered to the site inclusive of the transportation, unloading, hauling to site, handling for incorporation into the work, wastage, breakage and other incidental expenses, local taxes, etc. (excluding VAT).
2. Cost of labour. The minimum labour wages for “Skilled” and “Un-Skilled” categories were calculated based on the wages stipulated by the commissioner, Labour Department.
3. Location of work site and the distances from source and transport charges for bulk material (river sand, bricks, rubble, ¾” metal, earth)

4. Over-head and establishment cost of the contractor. Over- head cost includes general office expenses which are in-direct expenses to the site. These expenses may include (but not limited to) salaries of head office-staff, stationary, printing, postal and telecommunication charges, travelling expenses, rents and taxes, repairs to vehicles, depreciation, interest on investment, losses on advances, and other obligations arising out of the contract conditions etc. Generally this is in the range of 12% to 14% for a mid range contractor. viz: ICTAD categorization M4 or below. (Site over – heads are covered under preliminaries)
5. Profit margin. Depending on the risk associated with the work and work load of the contractor this may vary between 6% to 8%.

Fixing of rate per unit of a work Item. (Also known as “Unit Rate”):

The process of working out a rate per unit of a work Item involves the computation of following components and adding up.

- (a) Consumption of material and their unit cost. The price of manufactured materials and accessories were based on the retail price as appearing in the Price List of the relevant Manufacturer/ Agent. No discounts were taken in to consideration.
- (b) The number of different skill categories of labour hours and unit cost.
- (c) Cost of construction equipment and tools; (tools are usually estimated as a percentage of labour or material component.)
- (d) Cost of temporary scaffolding, hire charge of machinery, temporary covering, etc. (In case of partially constructed 3 storeyed buildings, it may sometimes be necessary to add scaffolding as a separate item Divisional Engineer to decide).
- (e) Adding over-head and profit margin.

The basis of arriving the most appropriate rate was decided after taking in to consideration the rate derived from the Analysis (i.e. work norms) and comparing the same with market rates. Every effort has been taken to derive the rates based on actual method of construction rather than sticking on to work norms which may sometimes appears to be conservative.

Scientific method of rate analysis begins with a “Method study” and “Work study” for each and every item in order to arrive at the consumption of different materials, labour hours needed, machine hours and tools to be utilized for a representative quantum of work. In the construction industry these are known as “Work Norms” or “Rate Analysis” or “Break up of Rates”(Break – down of Rates ?)

Once the work norms are established, then a unit price to be worked out for which an over-head and profit margin to be added. Most of the government departments use in-house rate analysis to arrive at unit rates. These rate analysis covered majority of work items.

However, there are instances where the rates arrived at based on such analysis may not accurately reflect the market rates. In such a scenario, one of the options given below were to be resorted to after taking in to consideration the ground situation.(i.e. practically what is happening in the field)

A notable trend observed in the construction industry is to employ specialized skilled craftsmen who are grouped as specialized labour contractors for certain trades, with material being supplied by the Contractor. These specialized, Sub-Contractors are mainly serving as labour Contractors to a Main Contractor and offer their services at competitive prices.

Also, there is a marked difference from earlier days where mid-range Contractors used to employ direct labour for every trade, whereas the present trend is to keep a skeleton of labour gang and sub-contract the labour component with material being provided, when such trades are profitable. In the preparation of B.S.R. , all these factors were also taken in to consideration.

Considering all these factors in to account, the appropriate method for a particular work item was decided from available options with due regard to the current practice. Following were the options considered in deriving the rates in the B.S.R.

Option (i)

Based on work norms practiced in the building industry, and directly substituting unit prices of material, labour and machinery along with over-head and profit.

Option (ii)

For items where work norms are not readily available or are not matching with present market rates, the rates are to be worked out based on market inquiry/quotations and applying a percentage for over-head and profit margin.

Option (iii)

Adding separately cost of material and rate of a specialized labour sub-contractor, when the operation is through the employance of a specialized labour sub-contractor, with material being supplied by the main contractor.

Option (iv)

Adding an attendance fee for work done through specialized sub-contractors/ suppliers. (i.e. both labour and material supplied by the specialized sub-contractor, main contractor's role is for allowing to store material, water and power supplying, allowing to use scaffolding allowing sanitary facilities to labour etc to the specialized sub - contractor.)

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
	<u>B - EXCAVATION & EARTH WORK</u>		
	<u>Excavation</u>		
B 01	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.	1,280.00
B 02	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	1,900.00
B 03	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	2,115.00
	Shoring, dewatering and rock blasting if necessary for the excavation, shall be paid separately for items B04 to B06		
B 04	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	2,680.00
B 05	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	4,085.00
B 06	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	5,335.00
B 07	Bulk excavation using machinery (measured on earth volume before disturbance based on initial and final spot levels on a 1m x 1m grid)	Cube	1,240.00
B 08	Bulk excavation using machinery including operator, fuel, etc..(based on machine hours)	Per Hour	2,700.00
	<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.B09 & B10)		
B 09	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.	90.00
B 10	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.	150.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
B 11	Temporary shoring with steel R.S.J's/Timber plank/Steel plate combination; with steel R.S.J's 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.	720.00
	<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		
B12	Approved Earth spreading , leveling watering and manual compaction, 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.	Cube	1,900.00
B13	Approved earth supplying and piled at site (measured at piled volume)	Cube	3,400.00
B14	Transport of Bulk material (Earth, Graded quarry dust, ABC mix) per Km per cube.	1 km	150.00
B15	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	13,260.00
B16	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.	Cube	11,995.00
B17	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	11,470.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
B18	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	1,230.00
B19	Manually spreading and levelling piled approved earth (applicable for filling out side the building area) rate without compaction.	Cube	340.00
	<u>Test</u>		
B20	Conducting a Proctor density check on sample fill material.	Per Test	3,000.00
B21	Testing the Field density of the compacted earth fill using Sand cone method.	Per Test	4,000.00
	<u>Anti-termite Treatment</u>		
B22	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.	Sq.ft.	30.00
B23	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.	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, C07 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 and Grade 25. Item Nos. from C25 to C30		
	4. Site produced concrete of Grade 20 - (machine mix or in case of small quantities manually mixed) Item No.C08 (along with Item Nos. from C09 to C24 which are derived from C08) These items are meant for pre-cast lintols, stiffners, 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	32,660.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
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.	5,730.00
C 03	Cement concrete 1:3:6 (1") in wall foundations, under column/stair footings including placing in position,compacting and curing.	Cube	34,390.00
	<u>IN - SITU REINFORCED CONCRETE OF GRADE 25</u> (mixed at site with a concrete mixer)		
1	Only Grade 25 concrete shall be used for footings, columns, beams, staircases, tie-beams of reinforced concrete elements in multi-storied building (excluding lintols, stiffner columns, copings, non-structural columns and Drains).		
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.		
	(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 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.		

ITEM NO.	DESCRIPTION	UNIT	RATE 2015										
	Table 4.4												
	<table border="1"> <tr> <th rowspan="2">Specified</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> <tr> <td>1:1 ½:3</td><td>25</td><td>0.053 m³ 1 ½ boxes</td><td>0.105 m³ 3 boxes</td></tr> </table>	Specified	Equivalent Concrete Grade	Quantities per 50 kg bag of cement		Fine Aggregate	Coarse Aggregate	1:1 ½:3	25	0.053 m ³ 1 ½ boxes	0.105 m ³ 3 boxes		
Specified	Equivalent Concrete Grade			Quantities per 50 kg bag of cement									
		Fine Aggregate	Coarse Aggregate										
1:1 ½:3	25	0.053 m ³ 1 ½ boxes	0.105 m ³ 3 boxes										
(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 bulking 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.												
(e)	<p>Slump of site mixed concrete before pouring shall be within 150mm±25mm range.</p> <p>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.</p> <p>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.</p>												

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
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		
	(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.		

ITEM NO.	DESCRIPTION	UNIT	RATE 2015										
	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	43,305.00										
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	44,605.00										
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	45,470.00										
C 07	Continuous curing of reinforced concrete columns of average size up to 15" X 18" by covering with gunnies and spraying water and keeping wet for a period of 7 days after removal of shuttering.	L.ft.	125.00										
	<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										

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
	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 shall satisfy with the grading criteria prescribed in Table 4.2 in the ICTAD Publication SCA/4/I.		
	(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.		

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
	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.		
C 08	Volume Batched Grade 20 concrete prepared at site for reinforced and unreinforced concrete floors laid on ground , lintols, copings, stiffners and drains. Rate shall include the cost of curing continuously for 5 days.	Cube	41,035.00
C 09	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.	400.00
C 10	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.	410.00
C 11	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.	420.00
C 12	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.	280.00
C 13	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.	290.00
C 14	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.	300.00
C 15	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.	370.00
C 16	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.	395.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
C 17	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.	625.00
C 18	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.	315.00
C 19	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.	525.00
C 20	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.	705.00
C 21	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.	950.00
C 22	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.	1,160.00
C 23	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.	1,945.00
C 24	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.	1,465.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
	<u>READY MIX CONCRETE</u>		
	<u>Requirement for Ready mixed concrete</u>		
	1. Minimum cement content shall be 300 kg/m ³		
	2. Nominal maximum size of aggregate shall be 20mm.		
	3. Slump shall be 150mm ± 25mm Maximum temperature 30 ⁰ C		
	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 5m ³ , one sample shall mean 3 test cubes		
C 25	Ready mix concrete of grade 20(20 N/mm ²) confirming to SLS 1144-1997, transport 20km from batching plant.	m ³	12,160.00
C 26	Ready mix concrete of grade 25(25 N/mm ²) confirming to SLS 1144-1997, transport 20km from batching plant.	m ³	12,515.00
C 27	Transport charges per Km per 5m ³ truck for over and above 20 km.	5m ³ /Km	325.00
C 28	Placing , levelling , vibrating the concrete.	m ³	500.00
C 29	Pumping charge for quantites up to 30 m ³ by pump car.	Item	21,750.00
C 30	For more than 30 m ³ additional pumping charges. (Rate for every m ³ over and above 30 m ³)	m ³	725.00
C 31	Curing of Concrete slabs with ponding water or covering with polythene sheets and continuous wetting for 7 days.	Sq.ft.	5.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
C 32	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.	1,100.00
	<u>D - FORM WORK</u>		
	<u>Note:</u>		
(a)	The rates given for items D 02 to D 08 herein are applicable for 15 mm thick plywood sheets or steel boards. Hence the rate is valid only if the shuttering / formwork for footing , column , beams , lintel, walls, slabs are of 15 mm thick ply boards or steel plate shuttering.		
(b)	Any deviation from the specified materials, specified thickness and the arrangement of formwork given in this document should require the written approval of the Divisional Engineer. (Rate for such deviation from the item description will be decided by the Divisional Engineer in consultation with the Director-Buildings)		
	<u>Special Note:</u>		
	Shuttering boxes 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 (Customally steel boxes or plywood boxes) of over 5'-0" height, then subject to the fulfillment of following conditions Divisional Engineering 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 tremie 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.		

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
	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 tremie 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.	3,725.00
D 02	Shuttering for sides and bottom of plinth beams, ground beams including dismantling in 15mm thick plywood	Sqr.	13,385.00
D 03	Shuttering for pantry slab including dismantling in 12mm thick Plywood board or steel boarding supported by timber props.	Sqr.	6,000.00
D 04	Shuttering for floor slab including dismantling in 15mm thick Plywood board or steel boarding up to 11'-0"soffit height supported by timber props or steel jacks.	Sqr.	12,080.00
D 05	Shuttering for floor Beams including dismantling in 15mm thick plywood board up to 12'-0" soffit height supported by timber props or steel jacks.	Sqr.	18,735.00
D 06	Shuttering for floor slab including dismantling in 15mm thick Plywood board or steel boarding support by steel jack up to 13'-0".	Sqr.	13,600.00
	The rate given for item D 07 applicable for 15 mm thick plywood sheets		
D 07	Shuttering for columns including dismantling in 15mm thick Plywood board.	Sqr.	15,850.00
	The rate given for item D 08 applicable for pre-fabricated steel shuttering box halves		
D 08	Shuttering for Columns including dismantling pre-fabricated steel shutter halves.	Sqr.	13,875.00
D 09	Shuttering for sides of drains with 12mm thick plywood boards.	Sqr.	4,200.00
	Note:		
	The rates given in Items D10 to D12 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 10	Shuttering for Lintols including dismantling.	Sqr.	5,700.00
D 11	Shuttering for stiffener columns between wall panels in 9" walls, 4 1/2" walls and in boundary walls.	Sqr.	5,100.00
D 12	Shuttering for R.C.C. copings in top of balcony , stair, boundary walls and pre - cast lintol sides, cast in-situ.	Sqr.	3,700.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
	<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 .	Kg	162.00
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 .	Kg	167.00
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 .	Kg	170.00
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.	Kg	200.00
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.	Kg	205.00
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.	Kg	209.00
E 07	Rate for testing of Tor-steel specimen of 1m length for mechanical properties at an approved laboratory.	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.	12.00
	<u>F - BRICK MASONRY</u>		
F 01	Brick work in cement and sand 1:8 in foundation up to D.P.C. level.	Cube	36,260.00
F 02	Brick work in cement and sand 1:8 of 9" thick walls in ground floor.	Cube	37,615.00
F 03	Brick work in cement and sand 1:8 of 9" thick walls in 1st floor level.	Cube	39,495.00
F 04	Brick work in cement and sand 1:8 of 9" thick walls in 2nd floor level.	Cube	40,245.00
F 05	Brick work in cement and sand 1:5 of 4 1/2" thick walls in ground floor.	Sqr.	15,440.00
F 06	Brick work in cement and sand 1:5 of 4 1/2" thick walls in 1st floor	Sqr.	16,210.00
F 07	Brick work in cement and sand 1:5 of 4 1/2" thick walls in 2nd floor	Sqr.	16,520.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
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.	560.00
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.	400.00
F 10	Brick piers in cement and sand 1:5 in ground floor.	Cube	39,285.00
	<u>G - CELLULAR BLOCK MASONRY</u>		
G 01	8" 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.	22,830.00
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.	18,040.00
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.	12,790.00
G 04	Supply and fixing 1'-0" x 1'-0" cement grill on wall.	Sq.ft.	157.00
G 05	Supply and fixing glass blocks size 8" x 8"	Sq.ft.	1,050.00
	<u>H - RUBBLE MASONRY</u>		
H 01	Random rubble (6"-9") masonry in cement mortar 1:5 in wall foundation and retaining walls.	Cube	28,000.00
	<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.	8,700.00
J 02	Gauge 700 polythene damp proof membrane with 6" laps laid under floors.	Sqr.	380.00
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.	5,670.00
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.	5,100.00
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.	7,990.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
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.	75.00
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.	79.00
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.	80.00
J 09	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.	17,950.00
J 10	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.	290.00
J 11	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.	395.00
	<u>Water Proofing</u>		
	The rates for Items J 12 to J 15 are strictly applicable, subject to the fulfilment 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 J12 to J15 shall be made on receipt of above certificate		
	<u>Type - 1 - Internal wet areas without exposure to sunlight</u>		

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
	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 12	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.	170.00
	<u>Type : 2 : Areas exposed to sunlight (Balconies, Sun-Shades, Concrete Gutters)</u>		
J 13	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.	200.00
	<u>Type : 3 : Water tanks,Sumps, Swimming pools (water proofing material suitable for portable water storage)</u>		
J 14	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.	325.00
	<u>Type - 4 - Application of membrane type water proofing material for Large flat roofs)</u>		
J 15	On large flat roofs laying of 3mm 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.	400.00
	The rates for items J12 and J13 include the cost of surface preparation, but do 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.		

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
	<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 seive.		
K 01	5/8" thick plastering to plinth wall in cement sand 1:3 including finishing with cement slurry floating.	Sqr.	5,475.00
K 02	Plastering 5/8" thick to walls in cement and sand 1:5 finished semi-rough.	Sqr.	5,265.00
K 03	Plastering 5/8" thick to reveals width not exceeding 6" in cement and sand 1:5 finished semi-rough.	L.ft.	132.00
K 04	Plastering 5/8" thick to reveals width not exceeding 6" in cement and sand 1:5 finished semi-rough in first floor.	L.ft.	134.00
K 05	Plastering 5/8" thick to reveals width not exceeding 6" in cement and sand 1:5 finished semi-rough in second floor.	L.ft.	136.00
K 06	Plastering 5/8" thick to walls in cement and sand 1:5 finished smooth with skim coat.	Sqr.	7,545.00
K 07	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.	123.00
K 08	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.	126.00
K 09	Plastering 5/8" thick to reveals width not exceeding 6" in cement and sand 1:5 finished smooth with skim coat in second floor.	L.ft.	129.00
K 10	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 with skim coat.	Sqr.	7,785.00
K 11	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.	7,340.00
K 12	Forming drip for sunshade edge cement & sand 1: 3 finished semi rough in ground floor.	L.ft.	110.00
K 13	Forming drip for sunshade edge cement & sand 1: 3 finished semi rough in first floor.	L.ft.	113.00
K 14	Forming drip for sunshade edge cement & sand 1: 3 finished semi rough in second floor.	L.ft.	116.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
K 15	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.	14,535.00
K 16	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.	163.00
K 17	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.	165.00
K 18	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.	167.00
K 19	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.	233.00
K 20	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.	236.00
K 21	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.	239.00
	<u>L - TILING</u>		
	<u>Note:</u>		
	Tiles should comply with European standard specification CEN 177.		
	Copy of the purchase bill should be produced at the time of payment.		
	For Item L01 - L03 Should be tile range manufactured by Lanka Wall Tile or approved equivalent.		
	<u>Wall Tiling</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 L04) (Prime Cost of tile Rs.85.00)	Sqr.	29,055.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
L 02	Glazed ceramic wall tiling of size 12" x 16" 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 L04) (Prime Cost of tile Rs.210.00)	Sqr.	33,290.00
L 03	Glazed porcelain 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 L04) (Prime Cost of tile Rs.522.00)	Sqr.	45,110.00
L 04	Cement and sand 1:3 screed of 1/2" thick backing to receive wall tiles.	Sqr.	5,040.00
	<u>Floor Tiling</u>		
	<u>Note :</u>		
(a)	For Item No. L05 Shall be ceramic floor tiles of industrial grade (heavy duty) floor tile range manufactured by Rocell or approved equivalent.		
(b)	For Item No. L06 to L17 Shall be Homogenous, Vitreous porcelain floor tiles of industrial grade (heavy duty) floor tile range manufactured by Rocell or approved equivalent.		
(c)	Rates include the cost of 1:3 cement:sand motar leveling bed.		
L 05	Ceramic unglazed floor tile 8" x 8" paving on 1:3 cement & sand bedding and pointed with tile grout to match the tile. (Heavy duty) (Prime Cost of tile Rs.72.00)	Sqr.	31,255.00
L 06	Homogeneous vitreous porcelain glazed or unglazed floor tile 12" x 12" paving on 1:3 cement & sand bedding and pointed with tile grout to match the tile. (Heavy duty) (Prime Cost of tile Rs.170.00)	Sqr.	32,445.00
L 07	Homogeneous vitreous porcelain glazed or unglazed floor tile 16" x 16" paving on 1:3 cement & sand bedding and pointed with tile grout to match the tile. (Heavy duty) (Prime Cost of tile Rs.300.00)	Sqr.	32,570.00
L 08	Homogeneous vitreous porcelain polished floor tile 12" x 12" paving on 1:3 cement & sand bedding and pointed with tile grout to match the tile.(Heavy duty) (Prime Cost of tile Rs.266.00)	Sqr.	44,540.00
L 09	Homogeneous vitreous porcelain polished floor tile 16" x 16" paving on 1:3 cement & sand bedding and pointed with tile grout to match the tile. (Heavy duty) (Prime Cost of tile Rs.492.00)	Sqr.	46,360.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
L 12	Homogeneous vitreous porcelain rustic floor tile 12" x 12" for garage & balcony areas paving on 1:3 cement & sand bedding and pointed with tile grout to match the tile. (Heavy duty) (Prime Cost of tile Rs.167.00)	Sqr.	32,065.00
L 13	Homogeneous vitreous porcelain rustic floor tile 16" x 16" for garage & balcony areas paving on 1:3 cement & sand bedding and pointed with tile grout to match the tile. (Heavy duty) (Prime Cost of tile Rs.315.00)	Sqr.	33,650.00
L 14	Homogeneous vitreous porcelain glazed floor tile 18" x 18" paving on 1:3 cement & sand bedding and pointed with tile grout to match the tile. (Heavy duty) (Prime Cost of tile Rs.387.00)	Sqr.	32,970.00
L 15	Supply and laying of 4" high skirting including tile grout to match the tile of tiling confirming to items L 05 to L 14	L.ft.	125.00
L 16	Supply and laying of 4" high skirting including tile grout to match the tile for staircases.	L.ft.	155.00
L 17	Supplying and laying homogeneous vitreous 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.	48,995.00
	Note :		
	The tiles specified in L18 to L23 are exclusively for residential/non-public area as specified by an Architect. The rate is applicable for tiles manufactured by Rocell or equilant and are of coloured designed tiles.		
L 18	Lay Ceramic glazed floor tiles 12" x 12" paving on 1:3 cement sand bedding and pointed with tile grout to match the tile. (Prime Cost of tile Rs.153.00)	Sqr.	30,300.00
L 19	Lay Ceramic glazed floor tiles 16" x 16" paving on 1:3 cement sand bedding and pointed with tile grout to match the tile. (Prime Cost of tile Rs.243.00)	Sqr.	28,480.00
L 20	Lay Ceramic glazed floor tiles 18" x 18" paving on 1:3 cement sand bedding and pointed with tile grout to match the tile. (Prime Cost of tile Rs.305.00)	Sqr.	28,320.00
L 21	Lay Ceramic glazed floor tiles 24" x 12" paving on 1:3 cement sand bedding and pointed with tile grout to match the tile. (Prime Cost of tile Rs.382.00)	Sqr.	35,090.00
L 22	Lay Ceramic glazed floor tiles 24" x 16" paving on 1:3 cement sand bedding and pointed with tile grout to match the tile. (Prime Cost of tile Rs.442.00)	Sqr.	32,190.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
L 23	Lay Ceramic glazed floor tiles 2'-0" x 2'-0" paving on 1:3 cement sand bedding and pointed with tile grout to match the tile. (Prime Cost of tile Rs.770.00)	Sqr.	35,280.00
	Note :		
	Rate for tiling should include for cement and sand 1:3 backing 20mm thick including pointing and grout to match with tile colours. (sizes of tiles to approval by the Architect).		
L 24	Rough porcelain bathroom floor tiles of size 8" x 8" of Lanka Wall Tile or equivalent, paving on 1:3 cement sand bedding and pointed with tile grout to match the tiles. (Prime Cost of tile Rs.70.00)	Sqr.	30,695.00
L 25	Rough porcelain bathroom floor tiles of size 12" x 12" of Rocell or equivalent, paving on 1:3 cement sand bedding and pointed with tile grout to match the tiles. (Prime Cost of tile Rs.135.00)	Sqr.	28,035.00
	Granite		
	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 "Ally Weerasinghe" or approved equivalent.		
	Granite should be without any defects.		
L 26	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.1475.00)	Sqr.	196,875.00
L 27	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.1325.00)	Sqr.	177,975.00
L 28	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.390.00)	Sqr.	60,165.00
L 29	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.390.00)	Sqr.	60,165.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
L 30	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.1380.00)	Sqr.	97,965.00
	<u>Designer Floor Tile range</u>		
L 31	Porcelain polished design floor tile 32" x 32" paving on 1:3 cement & sand bedding and pointed with tile grout to match the tile. (Prime Cost of tile Rs.2950.00)	Sqr.	63,000.00
L 32	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.1330.00)	Sqr.	52,920.00
L 33	Porcelain matt & gloss 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.1330.00)	Sqr.	52,920.00
L 34	Porcelain matt & gloss design floor tile 20" x 20" paving on 1:3 cement & sand bedding and pointed with tile grout to match the tile. (Prime Cost of tile Rs.630.00)	Sqr.	38,810.00
L 35	Porcelain matt & gloss design floor tile 24" x 16" paving on 1:3 cement & sand bedding and pointed with tile grout to match the tile. (Prime Cost of tile Rs.560.00)	Sqr.	37,840.00
L 36	Porcelain matt & gloss design floor tile 18" x 18" paving on 1:3 cement & sand bedding and pointed with tile grout to match the tile. (Heavy duty) (Prime Cost of tile Rs.390.00)	Sqr.	33,140.00
L 37	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.270.00)	Sqr.	30,420.00
	<u>M - COLOUR WASHING, PAINTING & POLISHING</u>		
M 01	Painting walls with one coat of wall primer including preparing surface.	Sqr.	1,765.00
M 02	Painting walls with one coat of emulsion paint including preparing surface.	Sqr.	1,100.00
M 03	Painting walls with two coats of emulsion paint including preparing surface.	Sqr.	2,185.00
M 04	Painting soffit with one coat of emulsion paint including preparing surface..	Sqr.	1,295.00
M 05	Painting soffit with two coats of emulsion paint including preparing surface.	Sqr.	2,570.00
M 06	Painting walls with one coat of weathershield paint including preparing surface.	Sqr.	1,900.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
M 07	Painting walls with two coats of weathershield paint including preparing surface.	Sqr.	3,125.00
M 08	Painting walls & soffits with one coat of primer.	Sqr.	2,355.00
M 09	Painting walls with one coat of enamel paint including preparing surface.	Sqr.	1,575.00
M 10	Painting walls with two coats of enamel paint including preparing surface.	Sqr.	3,320.00
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.	4,520.00
M 12	Application of plaster coatings using "skim coat", or approved equivalent to walls, slab, beam, column facings.Rate shall include for sand papering and surface preparation for a smooth finish.	Sqr.	3,610.00
M 13	Painting black boards with two coats of blackboard paint including preparing surface.	Sqr.	2,990.00
M 14	Preparing and painting old wood work with one coat of enamel paint.	Sqr.	1,850.00
M 15	Preparing and painting old wood work with two coats of enamel paint.	Sqr.	2,820.00
M 16	Preparing and painting new wood work with primer and two coats enamel paint.	Sqr.	3,850.00
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.	13,195.00
M 18	Varnishing two coats with polyurethane varnish after sand papering and application of sealer coat	Sqr.	3,515.00
M 19	Spray Painting for the wood work as per specified in SCA/4/1 clause 14.9 (f).	Sqr.	3,300.00
M 20	Wax polishing to timber in panels and floors.	Sqr.	915.00
M 21	Applying one coat of approved type floor polish including smoothing.	Sqr.	1,275.00
M 22	Painting floors with one coat of quick drying floor paint including washing and cleaning surfaces.	Sqr.	1,820.00
M 23	Painting steel work (window grills) with one coat of anti-corrosive paint and one coat primer including removing corroded scale and wire brushing.	Sqr.	1,770.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
M 24	Painting steel work (window grills) with two coats of anti-corrosive paint and one coat primer including removing corroded scale and wire brushing.	Sqr.	2,625.00
M 25	Painting steel work (in roof trusses) with two coats of Zinc phosphate primer including removing corroded scale and wire brushing.	Sqr.	3,135.00
M 26	Labour rate for two coats of Emulsion Painting walls including scaffolding (Paint & Brushes supplied by the client)	Sqr.	1,155.00
M 27	Labour rate for single coat of Emulsion Painting walls including scaffolding (Paint & Brushes supplied by the client)	Sqr.	770.00
M 28	Labour rate for two coats of enamel painting (Paint & Brushes supplied by the client)	Sqr.	1,735.00
	<u>N - DOORS & WINDOWS</u>		
	<u>Timber :</u>		
1	Refer preamble note for approved species. Finished door sash 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 barral 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 Fastner		
	<u>Doors</u>		
N 01	Door flush paneled 1 1/8" thick single sash hung on 3/4" x 2 3/4" frame. Rate without brass furniture, painting and lock.	3 Sq.ft.	1,080.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
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.	1,070.00
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.	1,080.00
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.	1,045.00
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.	590.00
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.	570.00
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.	1,140.00
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.	1,050.00
N 09	Supply & fixing 1 1/8" thick flush paneled door sash only. Rate without brass furnitures, door lock and painting.	Sq.ft.	840.00
N 10	Supply & fixing 1" thick flush paneled door sash only. Rate without brass furnitures, door lock and painting.	Sq.ft.	800.00
N 11	Supply & fixing 1 1/8" thick glazed & paneled door sash only. Rate without brass furnitures, door lock and painting.	Sq.ft.	895.00
N 12	Supply & fixing 1" thick glazed & paneled door sash only. Rate without brass furnitures, door lock and painting.	Sq.ft.	880.00
N 13	Supply & fixing 30mm thick plywood door sash only. Rate without brass furnitures, door lock and painting.	Sq.ft.	290.00
N 14	Door frame 3 3/4" x 2 3/4" in approved timber supplying & fixing in position.	Sq.ft.	545.00
	<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.	1,105.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
N 16	Window glazed 1" sash and 3 3/4" x 2 3/4" frame. Rate without brass furniture, painting.	Sq.ft.	1,080.00
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.	700.00
N 18	Supply & fixing 1 1/8" thick glazed window sash only. Rate without brass furnitures and painting.	Sq.ft.	850.00
N 19	Supply & fixing 1" thick glazed window sash only. Rate without brass furnitures and painting.	Sq.ft.	840.00
N 20	Window frame 3 3/4" x 2 3/4" in approved timber supplying & fixing in position.	Sq.ft.	625.00
	<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 choosen 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.		
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.		

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
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 12 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 2mm of Union Brand & Model no.- X8203-BB-2 or approved equivalent.	Pair	2,430.00
P 02	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	3,220.00
P 03	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	3,905.00
P 04	Supplying and fixing Night - latch lock of Union Brand & Model No. - 1028 WEPL or approved equivalent.	Nr.	10,680.00
P 05	Supplying and fixing Night - latch lock of Union Brand & Model No. - 1022 SEPL or approved equivalent.	Nr.	9,240.00
P 06	Supplying and fixing two lever Mortice door lock for single sash of Union Brand & Model no.-678.24.95 CH or approved equivalent.	Nr.	5,095.00
P 07	Supplying and fixing two lever Mortice door lock for double sash of Raniyo Brand & Model no.- 965.41.94 CH or approved equivalent.	Nr.	6,395.00
P 08	Supplying and fixing cylindrical door lock of Union Brand & Model no. - 96300-SS.or approved equivalent	Nr.	4,765.00
P 09	Supplying & fixing rim lock of Raniyo Brand & Model no. - 1445 or approved equivalent.	Nr.	2,320.00
P 10	Supplying & fixing hydraulic door closer of Union Brand & Model no. - 8823 SIL or approved equivalent.	Nr.	5,840.00
P 11	Supplying & fixing stainless steel Male or Female Symbol of Union Brand & Model no. - 200SS or approved equivalent.	Nr.	1,150.00
P 12	Supplying & fixing stainless steel Disabled Symbol of Union Brand or approved equivalent.	Nr.	1,440.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
	<u>M.M.Noorbhoy Fittings</u>		
P 13	Supplying and fixing 4" x 2 1/2" x 2.5mm thick solid brass hinges with-out ball bearing inclusive of brass screws marketted by M.M.Noorbhoy & company or approved equivalent.	Nr.	970.00
P 14	Supplying and fixing 4" x 3" x 2.5mm thick solid brass hinges with-out ball bearing inclusive of brass screws marketted by M.M.Noorbhoy & company or approved equivalent.	Nr.	1,030.00
P 15	Supplying and fixing 5" x 3" x 2.5mm thick solid brass hinges with-out ball bearing inclusive of brass screws marketted by M.M.Noorbhoy & company or approved equivalent.	Nr.	1,260.00
P 16	Supplying and fixing heavy duty solid brass casement fastener inclusive of brass screws marketted by M.M.Noorbhoy & company or approved equivalent.	Nr.	1,255.00
P 17	Supplying and fixing heavy duty solid brass casement stay - 6" inclusive of brass screws marketted by M.M.Noorbhoy & company or approved equivalent.	Nr.	710.00
P 18	Supplying and fixing heavy duty solid brass casement stay - 12" inclusive of brass screws marketted by M.M.Noorbhoy & company or approved equivalent.	Nr.	1,270.00
P 19	Supplying and fixing heavy duty solid brass 4" centre pivot inclusive of brass screws marketted by M.M.Noorbhoy & company or approved equivalent.	Pair	730.00
P 20	Supplying and fixing 4" long heavy duty solid brass tower bolt inclusive of brass screws marketted by M.M.Noorbhoy & company or approved equivalent.	Nr.	1,005.00
P 21	Supplying and fixing 6" long heavy duty solid brass tower bolt inclusive of brass screws marketted by M.M.Noorbhoy & company or approved equivalent.	Nr.	1,450.00
P 22	Supplying and fixing 8" long heavy duty solid brass tower bolt inclusive of brass screws marketted by M.M.Noorbhoy & company or approved equivalent.	Nr.	1,905.00
P 23	Supplying and fixing 10" long heavy duty solid brass tower bolt inclusive of brass screws marketted by M.M.Noorbhoy & company or approved equivalent.	Nr.	2,355.00
P 24	Supplying and fixing solid brass Door or Window pull ring of 1" dia. (Small)	Nr.	275.00
P 25	Supplying and fixing solid brass Door or Window pull ring of 1 1/4" dia. (Medium)	Nr.	325.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
P 26	Supplying and fixing solid brass Door or Window pull ring of 2" dia. (Large)	Nr.	350.00
P 27	Supplying and fixing solid brass fanlight catch.	Nr.	1,095.00
	<u>Other Fittings (for repair and maintenance in the absence of branded items mentioned in P13 to P27, following may be permitted for small quantities</u>		
P 28	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.	655.00
P 29	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.	660.00
P 30	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.	965.00
P 31	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.	1,125.00
P 32	Supplying & fixing polished brass barrel bolt of 4" with a weight not less than 210g \pm 5g with a smooth surface finish.	Nr.	565.00
P 33	Supplying & fixing polished brass barrel bolt of 6" with a weight not less than 300g \pm 5g with a smooth surface finish.	Nr.	825.00
P 34	Supplying & fixing polished brass tower bolt of 10" with a weight not less than 345g \pm 5g with a smooth surface finish.	Nr.	845.00
P 35	Supplying & fixing polished brass 1 1/4" dia. Pull ring with a weight not less than 100g \pm 5g with a smooth surface finish.	Nr.	485.00
P 36	Supplying and fixing mortice lock - Imported chinese	Nr.	2,310.00
P 37	Supplying and fixing Yale mortice lock - (Italy make)	Nr.	2,965.00
P 38	Supplying and fixing cupboard door lock - New star	Nr.	695.00
P 39	Supplying and fixing magnet lock	Nr.	75.00
P 40	Supplying and fixing 1" padlock	Nr.	485.00
P 41	Supplying and fixing 1 1/2" padlock	Nr.	575.00
P 42	Supplying and fixing 2" padlock	Nr.	1,020.00
P 43	Supplying and fixing hasp & staple	Nr.	55.00
	<u>Q - ROOFING AND CEILING</u>		

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
Q 01	Roof covering with calicut pattern clay tiles. (Timber frame work and ridge covering measured separately)	Sqr.	8,275.00
Q 02	Roof covering with corrugated asbestos sheets. (Timber frame work and ridge covering measured separately)	Sqr.	9,000.00
Q 03	Asbestos close fitting ridges fixed complete with roofing screws or hook bolts.	L.ft.	320.00
Q 04	Ridging with calicut pattern tiles bedded in cement & sand mortar 1:4 and coloured to match the tiles.	L.ft.	170.00
Q 05	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.	18,165.00
Q 06	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.	9,725.00
Q 07	Supplying and Fixing finished size 4" x 2" Coconut Rafters.	L.ft.	115.00
Q 08	Supplying and Fixing planned finished size 3 1/2 "x1 1/2" Coconut Rafters.	L.ft.	85.00
	<u>DSI TILES (NIVASI PRODUCT)</u>		
	Item Q09 - Q13 are using for the laying of DSI (NIVASI Tiles or approved equivelant 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 lengh 10'-0" @ 18" C/C		
	d) Reepers - 45mm x 25mm @ 10" C/C		
Q 09	Roof covering with Natural type main tiles of "Nivasi" or approved equivelant with approx. size 310mm x 310mm and unit weight of 3.1Kg. (Specified Timber frame work and ridge covering measured separately)	Sqr.	19,645.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
Q 10	Ridging with Natural type ridge tiles bedded in cement, sand mortar 1:5 and coloured to match the tiles.	L.ft.	300.00
Q 11	Roof covering with Natural type gable left tiles or approved equivalent .	L.ft.	180.00
Q 12	Roof covering with Natural type gable right tiles or approved equivalent .	L.ft.	180.00
Q 13	Roof covering with Natural type corner tiles or approved equivalent .	L.ft.	190.00
	<u>Flashing</u>		
Q 14	Aluminium Valley gutter of 3'-0" wide in gauge 24 sheets including 3/4" thk. Ginisapu timber boarding finished with two coats of wood preservative.	L.ft.	1,580.00
Q 15	Aluminium flashing of 1'- 6" wide in gauge 24 sheets including 3/4" thk. Ginisapu timber boarding finished with two coats of wood preservative.	L.ft.	1,340.00
Q 16	Aluminium flashing of 1'-6" wide in gauge 24 sheets, bent to shape and fix to wall. (without timber boarding)	L.ft.	340.00
Q 17	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 mortar 1:2	L.ft.	445.00
Q 18	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 and wood preservative to sheet and boarding. (Only to be specified when repairing an existing G.I. gutter)	L.ft.	1,785.00
Q 19	Zincalume flashing (0.47mm thick) and 1'6" wide bent to shape and fixed to wall (without timber coating)	L.ft.	455.00
Q 20	Zincalume Valley gutter of 3'-0" wide in 0.47mm thick sheets including 3/4" thk. Ginisapu timber boarding including wood preservative boarding.	L.ft.	1,815.00
	<u>Roof Timber</u>		
	<u>Note :</u>		

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
Q 21	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. Rate shall include for application of wood preservative.	Sqr.	38,325.00
Q 22	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/c.Rate shall include for application of wood preservative.	Sqr.	26,000.00
Q 23	Supply and installation of Zn/Alum profile sheets of total thickness 0.47mm , fixed to the roof timber frame work comprising of 140mm x 45mm hip rafters/valley rafters, 94mm x 70mm wall plates, 117mm x 94mm purling , 94mm x 45mm rafters @ 2'-0" spacing and 45mm x 22mm reepers @ 3'-6" spacing including ridge capping , end capping and other accessories required to complete the roof to working order. (Ceiling and thermal installation measured separately.) Rate shall include for routing , planing and sand papering hip/valley rafters, purlings and rafters and application of waterbased stain and two coats of water based sealants. Rate shall include for application of wood preservative. Timber frame work shall be approved local timber or imported Balau, Bitis or Kempas.	Sqr.	47,455.00
Q 24	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". Rate shall include for application of wood preservative.	Sqr.	30,450.00
Q 25	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". Rate shall include for application of wood preservative.	Sqr.	19,705.00
Q 26	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". Rate shall include for application of wood preservative.	Sqr.	28,070.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
Q 27	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. Rate shall include for application of wood preservative.	Sqr.	29,365.00
Q 28	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. with application of wood preservative.	Cu.ft.	6,940.00
Q 29	Supplying and fixing 117mm x 70mm purling up to 12'-0" length approved local timber or imported Balau, Kempas with application of wood preservative.	L.ft.	500.00
Q 30	Supplying and fixing 94mm x 70mm wall plates up to 12'-0" length, approved local timber or imported Balau, Kempas with application of wood preservative.	L.ft.	390.00
Q 31	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. with application of wood preservative.	Cu.ft.	5,760.00
Q 32	Supplying and fixing 94mm x 45mm approved local timber or imported Balau Kempas or Bitis timber purling, rafters etc. with application of wood preservative.	L.ft.	260.00
Q 33	Supplying and fixing 45mm x 45mm local Micro (Eucalyptus Microcoris) or Balau, Kempas or Bitis timber bearers with application of wood preservative.	L.ft.	90.00
Q 34	Supplying and fixing 45mm x 22mm local micro (Eucalyptus Microcoris)or Balau, Kempas or Bitis timber reepers including application of wood preservative.	L.ft.	55.00
Q 35	Timber valance/barge board in GINISAPU timber (finished size 225mmX18mm thick) fixed to roof frame with brass screws .	L.ft.	240.00
Q 36	Treating of timber by vacuum pressure impregnation technique or approved kiln treatment by "Finlays Rentokil Ceylon (Pvt) Ltd." or any other Authorized company. Rate shall include for transport charges.	Cu.ft.	410.00
Q 37	Applying two coats of wood preservative (Clear) to wood work.	Sqr.	850.00
Q 38	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.	245.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
	<u>Test</u>		
Q 39	Testing of a timber sample for identification from the Timber corporation laboratory.	Per Test	3,000.00
	<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.	215.00
R 02	P.V.C. down pipes 3 1/2" dia. fixed to wall with P.V.C. clips @ 4'-0" c/c including necessary sockets, bends, elbows.	L.ft.	175.00
	<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.		

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
(f)	The dimensions and performance characteristics are in par with the stated model.		
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>Luxuary 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.	26,835.00
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 , 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.	35,630.00
S 03	Supply and fix Chromium plated pillar tap for wash basin only cold water of "GROHE" brand model No.32958000 or approved equivalent.	Nr.	11,710.00
S 04	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.	35,985.00
S 05	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.	23,655.00
S 06	Supply and fix wall hung ceramic corner wash basin of "American Standard" brand, model New Codie-C1TH 0940-WT or approved equivalent complete to working order.Rate inclusive of brackets and connection to pipe line, but without tap and bottle trap.	Nr.	10,985.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
S 07	Supply and installation of vanity type wash basin of "American Standard" brand, model Ceros 0477-WT with A-8006-N waste & plug or approved equivalent. On concrete vanity slab finished with 3/4" thick approved polished granite tile in black colour. (Vanity top concrete slab & Granite tile laying measured separately.)	Nr.	12,515.00
S 08	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.	36,120.00
	<u>Normal Range</u>		
S 09	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.	15,850.00
S 10	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 , 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.	21,140.00
S 11	Supply and fix Chromium plated pillar tap for wash basin only cold water of "American Standard" brand model No. 4604.415.50 or approved equivalent.	Nr.	4,560.00
S 12	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.	9,120.00
S 13	Supply and fix squatting pan with foot rest of "Rocell" brand model No. SP3F013 or approved equivalent.	Nr.	4,885.00
S 14	Supply and fix plastic cistern for squatting pan of "Rocell" brand or approved equivalent including connecting pipe between tank and squatting pan.	Nr.	4,140.00
S 15	Supply and fix ceramic urinal with flush valve of "Rocell" brand model DP70013 or approved equivalent complete to working order.	Nr.	25,275.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
S 16	Supply and fix Chromium plated 1 1/4" dia.siphon cleanable bottle trap of "Rocell" brand model No.A186 or approved equivalent.	Nr.	5,075.00
S 17	Supply and fix Chromium plated 1/2" dia. angle valve of "S-lon" brand model No.JG6(B) or approved equivalent.	Nr.	2,340.00
S 18	Supply and fix hand held chromium plated bidet spray of "American Standard" brand model A4700-CH or approved equivalent.	Nr.	4,410.00
S 19	Supply and fix Chromium plated 4 function shower head of "American Standard" brand model No. A-6080 with shower arm of "American Standard" brand model No. A-6022-974-845 & concealed valve of "American Standard" brand model No.B JAZZ-A-7002C-B or approved equivalent for cold water.	Nr.	15,725.00
S 20	Supply and fix Chromium plated hand shower of "American Standard" brand model No. A-2003-A-MR with adjustable shower rod with soap tray of "American Standard" brand model No. Viola - A-6110-978-777 & angle valve of "American Standard" brand model No. 9113.005.50 or approved equivalent for cold water.	Nr.	21,980.00
S 21	Supply and fix Chromium plated shower mixer of "American Standard" brand model No. Saga - 1512.701.50 with adjustable shower rod of "American Standard" brand model No. Viola - A-6110-978-777 or approved equivalent.	Nr.	24,380.00
S 22	Supply and fix laboratory sink of "Rocell" brand & model "Xenon" or approved equivalent complete to working order.	Nr.	20,000.00
S 23	Supply and fix automatic hand dryer of "American Standard" brand, model Kingsway - HK1800PA or approved equivalent including electrical connection.	Nr.	14,680.00
S 24	Supply and fix 5mm thick mirror of size 18" x 24" double coated with pencil edge back strecher.	Nr.	2,800.00
	<u>Bathroom Accessories</u>		
S 25	Supply and fix chromium plated Soap Basket of "Rocell" brand & model "Charming" or approved equivalent. (Semi-luxuary range)	Nr.	4,500.00
S 26	Supply and fix chromium plated brass body and galss Soap Dish of "Rocell" brand & model "Charming" - DP 6703 or approved equivalent. (Luxuary range)	Nr.	3,145.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
S 27	Supply and fix chromium plated brass body and galss Tumbler Holder of "Rocell" brand & model "Charming" or approved equivalent.	Nr.	2,880.00
S 28	Supply and fix chromium plated Towel Ring of "Rocell" brand & model "Charming" or approved equivalent.	Nr.	2,665.00
S 29	Supply and fix chromium plated Robe Hook of "Rocell" brand & model "Charming" or approved equivalent.	Nr.	1,855.00
S 30	Supply and fix chromium plated Toilet Paper Holder of "Rocell" brand & model "Charming" or approved equivalent.	Nr.	3,745.00
S 31	Supply and fix chromium plated Toilet Cup Holder of "Rocell" brand & model "Charming" or approved equivalent.	Nr.	4,500.00
S 32	Supply and fix chromium plated 600mm long Single Towel Bar of "Rocell" brand & model "Charming" or approved equivalent.	Nr.	4,335.00
S 33	Supply and fix chromium plated 600mm long Double Towel Bars of "Rocell" brand & model "Charming" or approved equivalent.	Nr.	7,525.00
S 34	Supply and fix chromium plated 600mm long Towel Rack of "Rocell" brand & model "Charming" or approved equivalent.	Nr.	15,390.00
S 35	Supply and fix chromium plated brass body 450mm long Glass Shelf of "Rocell" brand & model "Charming" or approved equivalent.	Nr.	3,820.00
	<u>Disable Fittings & Accessories</u>		
S 36	Supply and fix ceramic wall hung wash basin for disabled of "American Standard" brand, model 0995-WT with waste & plug A-8006-N or approved equivalent.	Nr.	16,800.00
S 37	Supply and fix white ceramic water closet suite for the disabled of "American Standard" brand & model Ventura UP-3200.001.9 , Cygnet tank PP.4041.020.03.1 and Seat and cover MTC0903 or approved equivalent complete to working order.	Nr.	55,590.00
S 38	Supply and fix Heavy duty grab bar for disabled of "J&T" brand, model "GB029" or approved equivalent.	Nr.	5,000.00
S 39	Supply and fix grip bar for disabled of "American Standard" brand, model Apex - AR-065-18 S/S or approved equivalent.	Nr.	2,960.00
S 40	Supply and fix hand grip-shower angle for disabled of "American Standard" brand, model Me-tu - MTJT22-5 or approved equivalent.	Nr.	15,860.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
S 41	Supply and fix hand grip-shower for disabled of "American Standard" brand, model Me-tu - MTJT22-10 or approved equivalent.	Nr.	15,860.00
S 42	Supply and fix hand Swing up Grab bar for disabled of "J&T" brand, model "GB018" or approved equivalent.	Nr.	20,480.00
S 43	Supply and fix 36" x 18" stainless steel kitchen sink with single bowl & single drain of "Sealcore" 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.	5,430.00
S 44	Supply and fix 17" x 18" stainless steel kitchen sink with single bowl of "Sealcore" 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.	4,500.00
	<u>Fittings for rough usage (where probability of breakage may be high due to vandalism) Item Nos. S 45 and S 46.</u>		
S 45	Supply and fix ceramic wash basin with approved quality (pedestal) and complete to work in order. Rate without pillar tap & bottle trap.	Nr.	7,640.00
S 46	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.	1,955.00
S 47	Supplying and fixing 1 1/4" (40 mm) dia. PVC Bottle Trap.	Nr.	790.00
S 48	Shower rose chromium plated 4" dia. Fixed vertically with 1/2" valve socket including water connection.	Nr.	1,220.00
S 49	Supply and fixing plastic seat cover for Water Closet.	Nr.	1,200.00
S 50	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.	2,400.00
S 51	Supply and fixing Chromium plated Soap Tray	Nr.	530.00
S 52	Supply and fixing Chromium plated Single Towel Bar	Nr.	650.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
	<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.	380.00
T 02	Supplying and fixing Plastic 1/2" Angle valve of "S-lon" brand or approved equivalent.	Nr.	415.00
T 03	Supplying and fixing Plastic 1/2" Swan-neck tap of "S-lon" brand or approved equivalent.	Nr.	1,170.00
T 04	Supplying and fixing Plastic 1/2" Piller tap of "S-lon" brand or approved equivalent.	Nr.	795.00
T 05	Supplying and fixing Plastic Bidet Shower of "S-lon" brand or approved equivalent.	Nr.	710.00
T 06	Supply and fixing Plastic 1/2" stop tap of "S-lon" brand or approved equivalent.	Nr.	2,440.00
T 07	Supply and fixing 1/2" dia plastic flexible hose - 12" length.	Nr.	320.00
T 08	Supply and fixing 1/2" dia plastic flexible hose - 18" length.	Nr.	375.00
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 12 -T23)</u>		
T 10	Supplying and fixing 1" wheel valve "Pegler" Brand or approved equivalent.	Nr.	2,735.00
T 11	Supplying and fixing 1 1/4" wheel valve "Pegler" Brand or approved equivalent.	Nr.	3,800.00
T 12	Supplying and fixing 1 1/2" wheel valve "Pegler" Brand or approved equivalent.	Nr.	4,930.00
T 13	Supplying and fixing 2" wheel valve "Pegler" Brand or approved equivalent.	Nr.	7,085.00
T 14	Supply and fixing 1/2" dia Brass Ball valve "Pegler" Brand or approved equivalent.	Nr.	1,000.00
T 15	Supply and fixing 3/4" dia Brass Ball valve "Pegler" Brand or approved equivalent.	Nr.	1,350.00
T 16	Supply and fixing 1" dia Brass Ball valve "Pegler" Brand or approved equivalent.	Nr.	2,605.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
T 17	Supply and fixing 1 1/4" dia Brass Ball valve "Pegler" Brand or approved equivalent.	Nr.	3,470.00
T 18	Supply and fixing 1 1/2" dia Brass Ball valve "Pegler" Brand or approved equivalent.	Nr.	4,130.00
T 19	Supply and fixing 2" dia Brass Ball valve "Pegler" Brand or approved equivalent.	Nr.	6,420.00
T 20	Supply and fixing 3" dia Brass Ball valve "Pegler" Brand or approved equivalent.	Nr.	23,150.00
T 21	Supply and fixing 4" dia Brass Ball valve "Pegler" Brand or approved equivalent.	Nr.	28,800.00
	<u>PVC Fittings</u>		
T 22	Supply and fixing 1/2" dia PVC Compact Ball valve.	Nr.	320.00
T 23	Supply and fixing 3/4" dia PVC Compact Ball valve.	Nr.	435.00
T 24	Supply and fixing 1" dia PVC Compact Ball valve.	Nr.	475.00
T 25	Supply and fixing 1 1/4" dia PVC Compact Ball valve.	Nr.	630.00
T 26	Supply and fixing 1 1/2" dia PVC Compact Ball valve.	Nr.	705.00
T 27	Supply and fixing 2" dia PVC Compact Ball valve.	Nr.	1,060.00
T 28	Supply and fixing 3" dia PVC Compact Ball valve.	Nr.	2,565.00
T 29	Supply and fixing 1/2" dia PVC Union.	Nr.	320.00
T 30	Supply and fixing 1" dia PVC Union.	Nr.	355.00
	<u>Water Tanks</u>		
T 31	Supplying and installing "Plastishell" 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.	9,075.00
T 32	Supplying and installing "Plastishell" 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.	16,780.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
T 33	Supplying and installing 2000 ltr. "Plastishell" 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.	34,070.00
T 34	Supplying and installing 5000 ltr. "Plastishell" 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.	72,060.00
	<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 35	Supplying laying and/or fixing 1/2" dia. P.V.C. pipes Type 1000 (Specials paid separately).	L.ft.	60.00
T 36	Supplying laying and/or fixing 3/4" dia. P.V.C. pipes Type 1000 (Specials paid separately).	L.ft.	90.00
T 37	Supplying laying and/or fixing 1" dia. P.V.C. pipes Type 1000 (Specials paid separately).	L.ft.	115.00
T 38	Supplying laying and/or fixing 1 1/4" dia. P.V.C. pipes Type 1000 (Specials paid separately).	L.ft.	140.00
T 39	Supplying laying and/or fixing 1 1/2" dia. P.V.C. pipes Type 1000 (Specials paid separately).	L.ft.	185.00
T 40	Supplying laying and/or fixing 2" dia. P.V.C. pipes Type 1000 (Specials paid separately).	L.ft.	300.00
	<u>Waste Water Pipes.</u>		
T 41	Supplying and Fixing 1 1/4" dia P.V.C. waste pipe (type 600)	L.ft.	140.00
T 42	Supplying and fixing 1 1/2" dia P.V.C. waste pipe (type 600)	L.ft.	160.00
T 43	Supplying and fixing 2" dia. P.V.C waste pipe (type 600)	L.ft.	235.00
T 44	Supplying and fixing 4" dia. P.V.C waste pipe (type 600)	L.ft.	585.00
	<u>Sewer Pipes.</u>		
T 45	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.	1,135.00
T 46	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.	1,910.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
T 47	Supplying and laying 4" dia.P.V.C. sewer pipes (type 600) fixed to wall and floor slab with clips.	L.ft.	680.00
T 48	Supplying and laying 6" dia. P.V.C. sewer pipes (type 600) fixed to wall and floor slab with clips.	L.ft.	1,275.00
T 49	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 seperatly.	L.ft.	605.00
	<u>P.V.C. Specials.</u>		
T 50	Supplying and fixing 1/2" dia PVC Socket	Nr.	63.00
T 51	Supplying and fixing 1/2" dia. PVC Valve Socket	Nr.	70.00
T 52	Supplying and fixing 1/2" dia. PVC Faucet Socket	Nr.	67.00
T 53	Supplying and fixing 1/2" dia. PVC Elbow	Nr.	63.00
T 54	Supplying and fixing 1/2" dia. PVC Bend	Nr.	77.00
T 55	Supplying and fixing 1/2" dia. PVC Equal Tee	Nr.	67.00
T 56	Supplying and fixing 1/2" dia. PVC Clips	Nr.	20.00
T 57	Supplying and fixing 3/4" dia PVC Socket	Nr.	70.00
T 58	Supplying and fixing 3/4" dia. PVC Valve Socket	Nr.	77.00
T 59	Supplying and fixing 3/4" dia. PVC Faucet Socket	Nr.	77.00
T 60	Supplying and fixing 3/4" dia. PVC Elbow	Nr.	77.00
T 61	Supplying and fixing 3/4" dia. PVC Bend	Nr.	87.00
T 62	Supplying and fixing 3/4" dia. PVC Equal Tee	Nr.	87.00
T 63	Supplying and fixing 3/4" dia. PVC Clips	Nr.	25.00
T 64	Supplying and fixing 1" dia PVC Socket	Nr.	85.00
T 65	Supplying and fixing 1" dia. PVC Valve Socket	Nr.	83.00
T 66	Supplying and fixing 1" dia. PVC Faucet Socket	Nr.	90.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
T 67	Supplying and fixing 1" dia. PVC Elbow	Nr.	90.00
T 68	Supplying and fixing 1" dia. PVC Bend	Nr.	107.00
T 69	Supplying and fixing 1" dia. PVC Equal Tee	Nr.	114.00
T 70	Supplying and fixing 1" dia. PVC Clips	Nr.	26.00
T 71	Supplying and fixing 1 1/4" dia PVC Socket	Nr.	115.00
T 72	Supplying and fixing 1 1/4" dia. PVC Valve Socket	Nr.	130.00
T 73	Supplying and fixing 1 1/4" dia. PVC Faucet Socket	Nr.	135.00
T 74	Supplying and fixing 1 1/4" dia. PVC Elbow	Nr.	140.00
T 75	Supplying and fixing 1 1/4" dia. PVC Bend	Nr.	193.00
T 76	Supplying and fixing 1 1/4" dia. PVC Equal Tee	Nr.	170.00
T 77	Supplying and fixing 1 1/4" dia. PVC Clips	Nr.	30.00
T 78	Supplying and fixing 1 1/2" dia PVC Socket	Nr.	165.00
T 79	Supplying and fixing 1 1/2" dia. PVC Valve Socket	Nr.	170.00
T 80	Supplying and fixing 1 1/2" dia. PVC Faucet Socket	Nr.	180.00
T 81	Supplying and fixing 1 1/2" dia. PVC Elbow	Nr.	205.00
T 82	Supplying and fixing 1 1/2" dia. PVC Bend	Nr.	295.00
T 83	Supplying and fixing 1 1/2" dia. PVC Equal Tee	Nr.	265.00
T 84	Supplying and fixing 1 1/2" dia. PVC Clips	Nr.	34.00
T 85	Supplying and fixing 2" dia PVC Socket	Nr.	207.00
T 86	Supplying and fixing 2" dia. PVC Valve Socket	Nr.	220.00
T 87	Supplying and fixing 2" dia. PVC Faucet Socket	Nr.	230.00
T 88	Supplying and fixing 2" dia. PVC Elbow	Nr.	267.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
T 89	Supplying and fixing 2" dia. PVC Bend	Nr.	450.00
T 90	Supplying and fixing 2" dia. PVC Equal Tee	Nr.	340.00
T 91	Supplying and fixing 2" dia. PVC Clips	Nr.	35.00
T 92	Supplying and fixing 2 1/2" dia PVC Socket	Nr.	405.00
T 93	Supplying and fixing 2 1/2" dia. PVC Valve Socket	Nr.	335.00
T 94	Supplying and fixing 2 1/2" dia. PVC Faucet Socket	Nr.	368.00
T 95	Supplying and fixing 2 1/2" dia. PVC Elbow	Nr.	416.00
T 96	Supplying and fixing 2 1/2" dia. PVC Bend	Nr.	872.00
T 97	Supplying and fixing 2 1/2" dia. PVC Equal Tee	Nr.	464.00
T 98	Supplying and fixing 2 1/2" dia. PVC Clips	Nr.	74.00
T 99	Supplying and fixing 3" dia PVC Socket	Nr.	513.00
T 100	Supplying and fixing 3" dia. PVC Valve Socket	Nr.	573.00
T 101	Supplying and fixing 3" dia. PVC Faucet Socket	Nr.	573.00
T 102	Supplying and fixing 3" dia. PVC Elbow	Nr.	670.00
T 103	Supplying and fixing 3" dia. PVC Bend	Nr.	1,773.00
T 104	Supplying and fixing 3" dia. PVC Equal Tee	Nr.	873.00
T 105	Supplying and fixing 3" dia. PVC Clips	Nr.	92.00
T 106	Supplying and fixing 2" - 1 1/2" dia. PVC. Reducing Socket	Nr.	208.00
T 107	Supplying and fixing 2" - 1 1/4" dia. PVC. Reducing Socket	Nr.	200.00
T 108	Supplying and fixing 2" - 1" 1/2 dia. PVC. Reducing Socket	Nr.	194.00
T 109	Supplying and fixing 2" - 3/4" 2 dia. PVC. Reducing Socket	Nr.	190.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
T 110	Supplying and fixing 2" - 1/2" 2 dia. PVC. Reducing Socket	Nr.	185.00
T 111	Supplying and fixing 1 1/2" - 1 1/4" dia. PVC. Reducing Socket	Nr.	166.00
T 112	Supplying and fixing 1 1/2" - 1" 1/2 dia. PVC. Reducing Socket	Nr.	160.00
T 113	Supplying and fixing 1 1/2" - 3/4" 2 dia. PVC. Reducing Socket	Nr.	142.00
T 114	Supplying and fixing 1 1/2" - 1/2" 2 dia. PVC. Reducing Socket	Nr.	132.00
T 115	Supplying and fixing 1 1/4" - 1" 1/2 dia. PVC. Reducing Socket	Nr.	127.00
T 116	Supplying and fixing 1 1/4" - 3/4" 2 dia. PVC. Reducing Socket	Nr.	118.00
T 117	Supplying and fixing 1 1/4" - 1/2" 2 dia. PVC. Reducing Socket	Nr.	108.00
T 118	Supplying and fixing 1" - 3/4" 2 dia. PVC. Reducing Socket	Nr.	94.00
T 119	Supplying and fixing 1" - 1/2" 2 dia. PVC. Reducing Socket	Nr.	89.00
T 120	Supplying and fixing 3/4" - 1/2" dia. PVC. Reducing Socket	Nr.	79.00
T 121	Supplying and fixing 2" - 1 1/2" dia. PVC. Reducing Tee.	Nr.	362.00
T 122	Supplying and fixing 2" - 1 1/4" dia. PVC. Reducing Tee.	Nr.	353.00
T 123	Supplying and fixing 2" - 1" 1/2 dia. PVC. Reducing Tee.	Nr.	348.00
T 124	Supplying and fixing 2" - 3/4" 2 dia. PVC. Reducing Tee.	Nr.	346.00
T 125	Supplying and fixing 2" - 1/2" 2 dia. PVC. Reducing Tee.	Nr.	338.00
T 126	Supplying and fixing 1 1/2" - 1 1/4" dia. PVC. Reducing Tee.	Nr.	235.00
T 127	Supplying and fixing 1 1/2" - 1" 1/2 dia. PVC. Reducing Tee.	Nr.	209.00
T 128	Supplying and fixing 1 1/2" - 3/4" 2 dia. PVC. Reducing Tee.	Nr.	200.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
T 129	Supplying and fixing 1 1/2" - 1/2" 2 dia. PVC. Reducing Tee.	Nr.	178.00
T 130	Supplying and fixing 1 1/4" - 1" 1/2 dia. PVC. Reducing Tee.	Nr.	163.00
T 131	Supplying and fixing 1 1/4" - 3/4" 2 dia. PVC. Reducing Tee.	Nr.	160.00
T 132	Supplying and fixing 1 1/4" - 1/2" 2 dia. PVC. Reducing Tee.	Nr.	134.00
T 133	Supplying and fixing 1" - 3/4" 2 dia. PVC. Reducing Tee.	Nr.	122.00
T 134	Supplying and fixing 1" - 1/2" 2 dia. PVC. Reducing Tee.	Nr.	112.00
T 135	Supplying and fixing 3/4" - 1/2" dia. PVC. Reducing Tee.	Nr.	98.00
T 136	Supplying and fixing 1" - 3/4" 2 dia. PVC. Reducing Foucet Tee.	Nr.	120.00
T 137	Supplying and fixing 1" - 1/2" 2 dia. PVC. Reducing Foucet Tee.	Nr.	104.00
T 138	Supplying and fixing 3/4" - 1/2" dia. PVC. Reducing Foucet Tee.	Nr.	106.00
T 139	Supplying and fixing 1" - 3/4" 2 dia. PVC. Reducing Elbow.	Nr.	120.00
T 140	Supplying and fixing 1" - 1/2" 2 dia. PVC. Reducing Elbow.	Nr.	112.00
T 141	Supplying and fixing 3/4" - 1/2" dia. PVC. Reducing Elbow.	Nr.	108.00
	<u>Special Pipe fittings</u>		
T 142	Supplying and fixing 4" (110 mm) dia. Double access branch with cleaning eye.	Nr.	1,765.00
T 143	Supplying and fixing 4" (110 mm) dia Single access branch with cleaning eye.	Nr.	1,290.00
T 144	Supplying and fixing 4" (110 mm) dia single branch.	Nr.	1,130.00
T 145	Supplying and fixing 4" (110 mm) dia Swept bend with cleaning eye.	Nr.	1,215.00
T 146	Supplying and fixing 4" (110 mm) dia Swept bend.	Nr.	1,210.00
T 147	Supplying and fixing 4" (110 mm) dia Swept tee with cleaning eye.	Nr.	1,345.00
T 148	Supplying and fixing 4" (110 mm) dia Swept tee.	Nr.	945.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
T 149	Supplying and fixing 4" (110 mm) dia " P " trap.	Nr.	1,180.00
T 150	Supplying and fixing 4" (110 mm) dia " S " trap.	Nr.	1,490.00
T 151	Supplying and fixing 4" (110 mm) Multi floor trap (Catch pit).	Nr.	865.00
T 152	Supplying and fixing 4" (110 mm) dia Tee with cleaning eye.	Nr.	1,105.00
T 153	Supplying and fixing 4" (110 mm) dia.Bend.	Nr.	950.00
T 154	Supplying and fixing 6" (160mm) dia. Bend.	Nr.	1,165.00
T 155	Supplying and fixing Reducing Tee 6" x 4" (160mm x 110mm)	Nr.	1,870.00
T 156	Supplying and fixing 2" (63 mm)dia.Vent Cowl (Wire Dome)	Nr.	115.00
T 157	Supplying and fixing 4" (110mm) dia.Vent Cowl (Wire Dome)	Nr.	145.00
T 158	Supplying and fixing 1 1/2" (50 mm) dia Swept tee with cleaning eye.	Nr.	615.00
T 159	Supplying and fixing 1 1/2" (50 mm) dia Swept tee.	Nr.	615.00
T 160	Supplying and fixing 1 1/2" (50 mm) dia Equal tee.	Nr.	570.00
T 161	Supplying and fixing 1 1/2" (50 mm) dia Bend with cleaning eye.	Nr.	545.00
	<u>Hot water Pipes & Fittings</u>		
T 162	Supplying , laying and/or fixing 1/2" dia. CPVC - SDR pipes. (Specials paid separately).	L.ft.	115.00
T 163	Supplying , laying and/or fixing 1" dia. CPVC - SDR pipes. (Specials paid separately).	L.ft.	195.00
T 164	Supplying and fixing 1/2" dia. CPVC Socket.	Nr.	65.00
T 165	Supplying and fixing 1" dia. CPVC Socket.	Nr.	305.00
T 166	Supplying and fixing 1/2" dia. CPVC Valve Socket.	Nr.	80.00
T 167	Supplying and fixing 1" dia. CPVC Valve Socket.	Nr.	325.00
T 168	Supplying and fixing 1/2" dia. CPVC Faucet Socket.	Nr.	100.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
T 169	Supplying and fixing 1" dia. CPVC Faucet Socket.	Nr.	400.00
T 170	Supplying and fixing 1/2" dia. CPVC Tee.	Nr.	100.00
T 171	Supplying and fixing 1" dia. CPVC Tee.	Nr.	570.00
T 172	Supplying and fixing CPVC Elbow 1/2" x 45°	Nr.	80.00
T 173	Supplying and fixing CPVC Elbow 1/2" x 90°	Nr.	80.00
T 174	Supplying and fixing CPVC Elbow 1" x 45°	Nr.	510.00
T 175	Supplying and fixing CPVC Elbow 1" x 90°	Nr.	435.00
T 176	Supplying and fixing CPVC Reducing Socket 1" x 1/2"	Nr.	275.00
T 177	Supplying and fixing CPVC Reducing Tee 1" x 1/2"	Nr.	495.00
T 178	Supplying and fixing 1/2" dia. CPVC End Cap.	Nr.	60.00
T 179	Supplying and fixing 1" dia. CPVC End Cap.	Nr.	220.00
T 180	Supplying and fixing 1/2" dia. CPVC Tap End Plug.	Nr.	80.00
T 181	Supplying and fixing 1/2" dia. CPVC Union.	Nr.	605.00
T 182	Supplying and fixing 1/2" dia. CPVC Elbow Holder.	Nr.	70.00
T 183	Supplying and fixing 1" dia. CPVC Elbow Holder.	Nr.	880.00
T 184	Supplying and fixing 1/2" dia. CPVC Brass Male Adapter.	Nr.	510.00
T 185	Supplying and fixing 1/2" dia. CPVC Brass Female Adapter.	Nr.	510.00
T 186	Supplying and fixing 1/2" dia. CPVC Brass Elbow.	Nr.	395.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
	<u>Pumps & Accessories</u>		
T 187	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.	23,890.00
T 188	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.	6,790.00
	<u>Test</u>		
T 189	Water Pressure testing for PVC pipes for 6 bars.	Item	1,000.00
T 190	Testing of Water tanks & Sumps as per clause 3.8.6 of SCA/4/11	Item	4,000.00
	<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.	2,720.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
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.	4,385.00
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.	6,875.00
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.	16,850.00
	<u>Waste Water Manhole - Concrete</u>		
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.	3,645.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
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.	4,650.00
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.	15,665.00
	<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.	15,500.00
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.	18,670.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
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.	25,925.00
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.	33,430.00
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.	42,600.00
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.	57,045.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
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.	44,975.00
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 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 channel with 1:6 benching including P.V.C. specials, M.S. foot step & working spaces as per Drawing No:- WSS/10/07	Nr.	67,790.00
	<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.	20,760.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
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.	24,415.00
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.	36,805.00
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.	46,275.00
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.	62,665.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
	<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.	705.00
U 22	Supplying & fixing heavy duty Cast Iron manhole cover size of 24" x 18" including cover frame.	Nr.	7,075.00
	<u>Gulleys</u>		
U 23	Gulley S.W. 4" supplied and fixed including 1:2:4(3/4")concrete gully box.	Nr.	1,650.00
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.	4,990.00
	<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.	32,090.00
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.	58,860.00
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.	82,085.00
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.	77,345.00
U 29	Construction of 6'-0" dia. soakage pit in loose soil including necessary excavation all completeas per Drawing No:- WSS/SP/05.	Nr.	121,755.00
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.	164,400.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
	<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.	178,920.00
U 32	Construction of 50 person Septic tank (Brick) including necessary excavation all complete as per Drawing No:- WSS/ST/01.	Nr.	208,880.00
U 33	Construction of 70 person Septic tank (Brick) including necessary excavation all complete as per Drawing No:- WSS/ST/01.	Nr.	235,450.00
U 34	Construction of 100 person Septic tank (Brick) including necessary excavation all complete as per Drawing No:- WSS/ST/01.	Nr.	285,985.00
U 35	Construction of 150 person Septic tank (Brick) including necessary excavation all complete as per Drawing No:- WSS/ST/02.	Nr.	373,000.00
U 36	Construction of 100 person RCC Septic tank soil including necessary excavation all complete as per Drawing No:-WSS/ST/03.	Nr.	549,360.00
U 37	Construction of 150 person RCC Septic tank soil including necessary excavation all complete as per Drawing No:- WSS/ST/04.	Nr.	695,220.00
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.	76,915.00
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.	32,210.00
	<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		

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
2	All switches and socket outlets shall be plated type make "Clipsal", "Orange", "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	All ceiling fans should be KDK(M56RG), USHA (ATOM), Panasonic with guarantee card issued by the the authorized dealer.(Minimum warranty 1 year)		
	BSR rate was based on USHA - KIR Enterprises (Private) Limited distributed USHA brand model - ATOM. With Two years guarantee card issued from KIR Enterprises (Private) Limited		
5	Rate to include switch boxes, Rowl plugs, round/square pin plug base, Chromium plated M.S. chains, brass hooks, ceiling roses, holders and any other item necessary.		
6	All distribution boards should be incorporated with multi 9, Orange Industrial, Merlin Gerin, A.B.B. , Hager, Moeller/EATON, clipsal, SIEMENS make MCB's (Miniature circuit Breaker) and cabtree, Clipsal ,Orange Industrial, Merlin Gerin,Schinieider make R.C.C.B.'s (Residual Current circuit Breaker) and Schinieider, Merlin Gerin, , Dormans Smith ,Orange Industrial, Biticano , Clockner moeller make M.C.C.B.'s (Moulded Case Circuit Breakers)		
7	The whole installation shall be carried out according to CEB/IEE wiring regulations.		
8	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.		

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
	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. OrangeIndustrial brand - Orel Corporation(Pvt) Ltd.		
	2. M.C.B.'s - SIEMENS brand - RotexLtd. OrangeIndustrial brand - 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.		
	6.Lighting Fittings - Rates for light fittings are based on products available at Myland Marketing, 18, Devos Avenue, Colombo - 04. The images of respective fittings are included as a means of visually identifying the requirement. Any product with comparable shapes, material properties and warranties are acceptable		
	All Lighting Fittings shall have 2 Years warranty and hence products which comes with 2 Years warranty are permitted.		
9	The height of the light bracket from floor level is 2.5m		
10	Height of the switches from floor level is 1.5m		
11	No ceiling fan should be installed at a height of less than 2.7m from floor level		
12	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.		

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
13	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)		
14	Point wiring only with and including Socket (Rate includes wiring from MCB to the Socket, socket box, and conduit)		
15	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 5Amp 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	1,700.00
V 02	Light points wired through a 5 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	2,210.00
V 03	Light points wired through a 5 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	2,735.00
V 04	Light points wired through a 5 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	3,280.00
V 05	Light points-wired through a 5Amp 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	3,770.00
V 06	Light point wired through a 5 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	2,350.00
V 07	Light points wired through a 5 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	3,015.00
V 08	Light points wired through a 5 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	3,685.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
V 09	Light points wired through a 5 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	4,370.00
V 10	Light points wired through a 5 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	5,045.00
V 11	Light point wired through a 5 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	2,115.00
V 12	Light points wired through a 5 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	2,700.00
V 13	Light points wired through a 5 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	3,290.00
V 14	Light points wired through a 5 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	3,895.00
V 15	Light points wired through a 5 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	4,495.00
V 16	Light point wired through a 5Amp 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	2,140.00
V 17	Light point wired through a 5Amp 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	2,780.00
V 18	Light point wired through a 5Amp 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	2,545.00
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	2,470.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
V 20	Electric Bell with bell press switch using flexible wire (twisted twin wire) only in the table legs and floor crossings.	Nr.	2,470.00
	<u>POINT WIRING WITH EARTHWIRE.</u>		
	Items V 21 - V 39 shall be used for light point wiring for lamp fittings with metal enclosed.		
V 21	Light point wired through a 5Amp 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	2,745.00
V 22	Light point wired through a 5Amp 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	3,600.00
V 23	Light point wired through a 5Amp 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	4,455.00
V 24	Light point wired through a 5Amp 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	5,325.00
V 25	Light point wired through a 5Amp 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	6,190.00
V 26	Light point wired through a 5Amp 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	3,375.00
V 27	Light point wired through a 5Amp 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	4,380.00
V 28	Light point wired through a 5Amp 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	5,390.00
V 29	Light point wired through a 5Amp 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	6,415.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
V 30	Light point wired through a 5Amp 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	7,435.00
V 31	Light point wired through a 5Amp 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	3,150.00
V 32	Light point wired through a 5Amp 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	4,075.00
V 33	Light point wired through a 5Amp 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	5,010.00
V 34	Light point wired through a 5Amp 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	5,955.00
V 35	Light point wired through a 5Amp 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	6,900.00
V 36	Light point wired through a 5Amp 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	3,250.00
V 37	Light point wired through a 5Amp 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	3,895.00
V 38	Light point wired through a 5Amp 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	3,660.00
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	3,580.00
	<u>SWITCH SOCKET WIRING (V 40 - V 44)</u>		

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
V 40	5 Amp Switch socket outlet wired using 2x1/1.13mm (2x1/044) P.V.C. insulated copper wire & 1x7/0.67(7/029) copper earth wire in fully concealed/surface P.V.C. conduits.	Nr.	3,260.00
V 41	5 Amp Switch socket outlet wired using 2x1/1.13mm (2x1/044) P.V.C. insulated copper wire & 1x7/0.67(7/029)copper earth wire in fully surface plastic casing and capping.	Nr.	3,730.00
V 42	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.	4,245.00
V 43	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.	4,615.00
V 44	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.	Nr.	Rate as following formula
	$R = \frac{650}{L} \times L + \frac{500}{L} \times N$		
	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 45 - V 52 shall include the cost of WIRING , REGULATOR, FAN HOOK & OTHER ACCESSORIES</u>		
V 45	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.	2,760.00
V 46	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.	2,905.00
V 47	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.	3,570.00
V 48	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.	3,710.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
V 49	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 copping and other half in conduit.	Nr.	3,105.00
V 50	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 copping and other half in conduit.	Nr.	3,345.00
V 51	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.	4,110.00
V 52	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.	5,700.00
	<u>Supply & Install only the following V 53 - V 58</u>		
V 53	Ceiling fan 56" Sweep (USHA - Atom) or approved equivalent brand and model No.	Nr.	6,075.00
V 54	Dimmer type fan regulator with a switch (Clipsal, KDK or equivalent)	Nr.	930.00
V 55	Exhaust fan 12" dia. (K.D.K. or Equivalent)	Nr.	10,205.00
V 56	Wall mounted fan - European make (K.D.K. or Equivalent)	Nr.	12,150.00
V 57	Supply & Fixing heavy duty 3/4" dia. x 3.2mm 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.	190.00
V 58	Supply & Fixing heavy duty 1" dia. x 3.2mm 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.	250.00
	<u>CABLE WIRING.</u>		
V 59	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.	90.00
V 60	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.	190.00
V 61	Supplying and wiring 2 x 6mm ² (7/.044") PVC/PVC/ Cu cable complete to working order excluding conduit/casing	L.ft.	140.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
V 62	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.	310.00
V 63	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.	305.00
V 64	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.	495.00
V 65	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.	450.00
V 66	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.	740.00
V 67	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.	635.00
V 68	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.	1,095.00
V 69	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.	1,460.00
V 70	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.	3,900.00
V 71	Supplying and fixing 2 core flexible (0.5mm ²) .	L.ft.	25.00
V 72	Supplying and wiring 2.5mm ² (7/.029") earth wire complete to working order excluding conduit/casing.	L.ft.	30.00
V 73	Supplying and wiring 6 mm ² (7/.044") earth wire complete to working order excluding conduit/casing.	L.ft.	60.00
V 74	Supplying and wiring 10 mm ² (7/.052") earth wire complete to working order excluding conduit/casing.	L.ft.	95.00
V 75	Supplying and wiring 16 mm ² (7/.064") earth wire complete to working order excluding conduit/casing.	L.ft.	135.00
V 76	Supplying and wiring 1mm ² (1/.044") PVC/PVC/ Cu twin wire complete to working order excluding conduit/casing.	L.ft.	25.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
V 77	Supplying and wiring 2.5mm ² (7/.029") PVC/PVC Cu twin wire complete to working order excluding conduit/casing.	L.ft.	65.00
V 78	Supplying and wiring with 4mm ² (7/.036") PVC/PVC/Cu twin wire complete to working order excluding conduit/casing.	L.ft.	95.00
V 79	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.	135.00
V 80	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.	215.00
V 81	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.	145.00
V 82	3/4" - 1" PVC conduits laying in the slab including placing binding wire to draw through conduits.	L.ft.	30.00
V 84	Supplying and fixing 3/4" PVC conduit including clips.	L.ft.	25.00
V 85	Supplying and fixing 1" PVC conduit including clips.	L.ft.	30.00
V 86	Supplying and fixing 1 1/4" dia. PVC conduit pipe	L.ft.	40.00
V 87	Supplying and fixing 1 1/2" dia. PVC conduit pipe	L.ft.	55.00
V 88	Supplying and fixing 2" dia. PVC conduit pipe	L.ft.	65.00
V 89	Supplying and fixing 1" - 1 1/2" dia. type 400 PVC pipe including clips.	L.ft.	80.00
V 90	Supplying and fixing 2" dia. type 400 PVC pipe including clips.	L.ft.	145.00
V 91	Supplying and fixing 3" dia. type 400 PVC pipe including clips.	L.ft.	335.00
V 92	Supplying and fixing 3/4" dia. PVC conduit bend	Nr.	25.00
V 93	Supplying and fixing 1" dia. PVC conduit bend	Nr.	30.00
V 94	Supplying and fixing 1 1/4" dia. PVC conduit bend	Nr.	50.00
V 95	Supplying and fixing 1 1/2" dia. PVC conduit bend	Nr.	70.00
V 96	Supplying and fixing 2" dia. PVC conduit bend	Nr.	95.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
V 97	Supplying and fixing 3/4" or 1" PVC conduit junction box.	Nr.	25.00
V 98	Supplying and fixing 1" PVC casing	L.ft.	30.00
V 99	Supplying and fixing 1 1/4" PVC casing	L.ft.	35.00
V 100	Supplying and fixing 1 1/2" PVC casing	L.ft.	35.00
V 101	Supplying and fixing 2" PVC casing	L.ft.	45.00
V 102	Supplying and fixing 2"x 2: box casing. PVC casing	L.ft.	80.00
	<u>Supply and installation of distribution board</u>		
	<u>Plastic encloser</u>		
V 103	1-4 ways SP&N Distribution Board with thermo plastic frame and door, earth and neutral bars din rail type (protection rating IP40)	Nr.	1,600.00
V 104	8-10 ways SP&N Distribution board with thermo plastic frame and door, earth and neutral bars din rail type (protection rating IP40)	Nr.	1,625.00
V 105	10-12 ways SP&N Distribution board with thermo plastic frame and door, earth and neutral bars din rail type (protection rating IP40)	Nr.	1,980.00
V 106	12-14 ways SP&N distribution board with thermo plastic frame and door, earth and neutral bars din rail type (protection rating IP40)	Nr.	2,120.00
V 107	14-16 ways SP&N Distribution board with thermo plastic frame and door, earth and neutral bars din rail type (protection rating IP40)	Nr.	2,215.00
	<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 108	Size -200mm(W) *200mm(H) * 150mm(D)	Nr.	6,315.00
V 109	Size -400mm(W) *400mm(H) * 150mm(D)	Nr.	10,890.00
V 110	Size -600mm(W) *600mm(H) * 200mm(D)	Nr.	20,900.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
	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 111	40Amp, 30 mA Double Pole ELCB (RCCB)	Nr.	4,210.00
V 112	40Amp, 100 mA Double Pole ELCB (RCCB)	Nr.	4,555.00
V 113	40Amp, 300 mA Double Pole ELCB (RCCB)	Nr.	4,645.00
V 114	63Amp, 30 mA Double Pole ELCB (RCCB)	Nr.	4,490.00
V 115	63Amp, 100 mA Double Pole ELCB (RCCB)	Nr.	4,620.00
V 116	63Amp, 300 mA Double Pole ELCB (RCCB)	Nr.	4,620.00
V 117	40Amp, 30 mA Four Pole ELCB (RCCB)	Nr.	6,040.00
V 118	40Amp, 100 mA Four Pole ELCB (RCCB)	Nr.	6,275.00
V 119	40Amp, 300 mA Four Pole ELCB (RCCB)	Nr.	6,395.00
V 120	63Amp, 30 mA Four Pole ELCB (RCCB)	Nr.	6,630.00
V 121	63Amp, 100 mA Four Pole ELCB (RCCB)	Nr.	6,630.00
V 122	63Amp, 300 mA Four Pole ELCB (RCCB)	Nr.	6,630.00
V 123	100Amp, 300 mA Four Pole ELCB (RCCB)	Nr.	9,620.00
V 127	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.	3,780.00
V 128	30,40,60,100 Amp , 25KA Three Pole MCCB without metal enclosure.	Nr.	10,315.00
V 129	30,40,60,100 Amp , 25KA Four Pole MCCB without metal enclosure.	Nr.	11,385.00
V 130	125 Amp , 25KA Three Pole MCCB without metal enclosure.	Nr.	13,390.00
V 131	160 Amp , 25KA Three Pole MCCB without metal enclosure.	Nr.	13,935.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
V 132	250 Amp , 25KA Three Pole MCCB without metal enclosure.	Nr.	21,030.00
V 133	125 Amp , 25KA Four Pole MCCB without metal enclosure.	Nr.	17,335.00
V 134	160 Amp , 25KA Four Pole MCCB without metal enclosure.	Nr.	21,465.00
V 135	250 Amp , 25KA Four Pole MCCB without metal enclosure.	Nr.	27,325.00
V 136	6 - 32 Amp Single Pole MCB	Nr.	665.00
V 137	40 Amp Single Pole MCB	Nr.	710.00
V 138	63 Amp Single Pole MCB	Nr.	750.00
V 139	6 - 32 Amp Double Pole MCB	Nr.	1,280.00
V 140	40 Amp Double Pole MCB	Nr.	1,360.00
V 141	63 Amp Double Pole MCB	Nr.	1,400.00
V 142	6 - 32 Amp Three Pole MCB	Nr.	1,880.00
V 143	40 Amp Three Pole MCB	Nr.	1,950.00
V 144	63 Amp Three Pole MCB	Nr.	2,050.00
V 145	6 - 32 Amp Four Pole MCB	Nr.	2,470.00
V 146	40 Amp Four Pole MCB	Nr.	2,575.00
V 147	63 Amp Four Pole MCB	Nr.	2,710.00
V 148	40 Amp Double Pole Isolator with plastic enclosure.	Nr.	1,315.00
V 149	63 Amp Double Pole Isolator with plastic enclosure.	Nr.	1,530.00
V 150	100 Amp Double Pole Isolator with plastic enclosure.	Nr.	1,950.00
V 151	40 Amp Three Pole Isolator with plastic enclosure.	Nr.	2,135.00
V 152	63 Amp Three Pole Isolator with plastic enclosure.	Nr.	2,300.00
V 153	100 Amp Three Pole Isolator with plastic enclosure.	Nr.	2,330.00
V 154	40 Amp Four Pole Isolator with plastic enclosure.	Nr.	2,420.00
V 155	63 Amp Four Pole Isolator with plastic enclosure.	Nr.	2,635.00
V 156	100 Amp Four Pole Isolator with plastic enclosure.	Nr.	3,170.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
	<u>LIGHT FITTINGS</u>		
	<u>Note:</u>		
	Rate for items V 157 - V 189 shall include the cost of adapter, connecting 2core 1mm ² cable of length not exceeding 1.5m , galvanized hanging chain. (incase the cable length exceed 1.5m refer item V 76 for Payment of additional length.)		
	<u>Note:</u>		
	Lamp fitting with bulb shall be given a two year Warranty for fitting and one year warranty for bulb. This is applicable for Item V157-V160		
	Lamp fitting with given a two year Warranty for fitting .		
	<u>Supply & Install only the following fittings.</u>		
V 157	Inner diameter of 5" recess mounted down light with polished aluminum reflector of "Simy" Brand & Model No:SIYDL125R or approved equivalent.(with CFL)	Nr.	1,330.00
V 158	Inner diameter of 5" surface mounted down light with polished aluminum reflector of "Simy" Brand & Model No:SIYDL125S or approved equivalent.(with CFL)	Nr.	2,070.00
V 159	Inner diameter of 4" wall mounted cylindrical shaped upward light fitting of "Simy" Brand & Model No:SIYWB937 or approved equivalent.(with CFL)	Nr.	1,945.00
V 160	Weatherproof IP65 rated wall mounted cylindrical shaped up down ward light fitting of "Simy" Brand & Model No:SIYWB3027 or approved equivalent.(with CFL)	Nr.	6,170.00
V 161	Weatherproof IP65 rated wall mounted 2'-0" single fluorescent light fitting with 18W bulb (T8) of "Simy" Brand & Model No:SIYWP120 or approved equivalent.	Nr.	3,535.00
V 162	8" clear transparent glass globe pendent type light fitting of "Simy" Brand & Model No:SIYWB937 or approved equivalent.(with CFL)	Nr.	2,250.00
V 163	Spot light with bulbs of "LEADLUX" Brand & Model No:9006 or approved equivalent.	Nr.	6,660.00
V 164	Pendent Lamp	Nr.	555.00
V 165	20W CFL lamp with one year warranty - Osram , Philips or Approved Equivelant.	Nr.	950.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
V 166	Mercury Vapour Lamp bracket complete 125 watts with clamps (equivalent to Siemens SNA 395)	Nr.	7,790.00
V 167	Mercury Vapour Lamp bracket complete 250 watts with clamps (equivalent to Siemens SNA 395)	Nr.	10,370.00
	Note:		
	In all fluorescent lamp complete fittings incorporating, electronic choke-Atco, BG and starter, Bulb-Philips, Osram, Thorn Electronic Choke-Atco, Starter - BG and Bulbs - Philips, onramp, Thorn		
V 168	4'-0" long single fluorescent lamp fitting , suspension - opal white/diamond cut diffuser with 1 no of 36W fluorescent bulb (T8) of "Simy" Brand & Model No:SIYBD140BD or approved equivalent.	Nr.	3,835.00
V 169	4'-0" long Twin fluorescent lamp fitting , suspension - opal white/diamond cut diffuser with 2 nos of 36W fluorescent bulbs (T8) of "Simy" Brand & Model No:SIYBD240BD or approved equivalent.	Nr.	5,570.00
V 170	2'-0" long single fluorescent lamp fitting , suspension - opal white/diamond cut diffuser with 1 no of 18W fluorescent bulb (T8) of "Simy" Brand & Model No:SIYBD120BD or approved equivalent.	Nr.	3,580.00
V 171	2'-0" long Twin fluorescent lamp fitting , suspension - opal white/diamond cut diffuser with 2 nos of 18W fluorescent bulbs (T8) of "Simy" Brand & Model No:SIYBD220BD or approved equivalent.	Nr.	4,285.00
V 172	4'-0" long single fluorescent lamp fitting , suspension - polished aluminium reflector with 1 no of 36W fluorescent bulb (T8) of "Simy" Brand & Model No:SIYBR140M or approved equivalent.	Nr.	3,320.00
V 173	4'-0" long Twin fluorescent lamp fitting , suspension - polished aluminium reflector with 2 nos of 36W fluorescent bulbs (T8) of "Simy" Brand & Model No:SIYBR240M or approved equivalent.	Nr.	4,285.00
V 174	2'-0" long single fluorescent lamp fitting , suspension - polished aluminium reflector with 1 no of 18W fluorescent bulb (T8) of "Simy" Brand & Model No:SIYBR120M or approved equivalent.	Nr.	3,320.00
V 175	2'-0" long Twin fluorescent lamp fitting , suspension - polished aluminium reflector with 2 nos of 18W fluorescent bulbs (T8) of "Simy" Brand & Model No:SIYBR220M or approved equivalent.	Nr.	4,285.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
V 176	4'-0" long single fluorescent lamp fitting , suspension - round prismatic diffuser with 1 no of 36W fluorescent bulb (T8) of "Simy" Brand & Model No:SIYBLD140 or approved equivalent.	Nr.	3,835.00
V 177	4'-0" long Twin fluorescent lamp fitting , suspension - round prismatic diffuser with 2 nos of 36W fluorescent bulbs (T8) of "Simy" Brand & Model No:SIYBLD240 or approved equivalent.	Nr.	5,570.00
V 178	2'-0" long single fluorescent lamp fitting , suspension - round prismatic diffuser with 1 no of 18W fluorescent bulb (T8) of "Simy" Brand & Model No:SIYBLD120 or approved equivalent.	Nr.	3,580.00
V 179	2'-0" long Twin fluorescent lamp fitting , suspension - round prismatic diffuser with 2 nos of 18W fluorescent bulbs (T8) of "Simy" Brand & Model No:SIYBLD220 or approved equivalent.	Nr.	4,285.00
V 180	4'-0" long single fluorescent lamp fitting , batton type with 1 no of 36W fluorescent bulb (T8) of "Simy" Brand & Model No:SIYBF140 or approved equivalent.	Nr.	1,970.00
V 181	4'-0" long Twin fluorescent lamp fitting , batton type with 2 nos of 36W fluorescent bulbs (T8) of "Simy" Brand & Model No:SIYBF240 or approved equivalent.	Nr.	3,130.00
V 182	2'-0" long single fluorescent lamp fitting , batton type with 1 no of 18W fluorescent bulb (T8) of "Simy" Brand & Model No:SIYBF120 or approved equivalent.	Nr.	1,715.00
V 183	2'-0" long Twin fluorescent lamp fitting , batton type with 2 nos of 18W fluorescent bulbs (T8) of "Simy" Brand & Model No:SIYBF220 or approved equivalent.	Nr.	2,875.00
V 184	2'-0" x 2'-0" Recessed mounted fluorescent lamp fittings with full parabolic polished aluminium mirror louver and 2 nos of 18W fluorescent bulbs T8 of "Simy" Brand & Model No:SIYPL-T8 or approved equivalent. COMPLETE WITH ELECTRONIC BALLAST PHILIPS / TOSHIBA FLOURESCENT	Nr.	6,535.00
V 185	2'-0" x 2'-0" Recessed mounted fluorescent lamp fittings with full parabolic polished aluminium mirror louver and 3 nos of 18W fluorescent bulbs (T8) of "Simy" Brand & Model No:SIYPL-T8 or approved equivalent.	Nr.	6,535.00
V 186	2'-0" x 2'-0" Recessed mounted fluorescent lamp fittings with full parabolic polished aluminium mirror louver and 4 nos of 18W fluorescent bulbs (T8) of "Simy" Brand & Model No:SIYPL-T8 or approved equivalent.	Nr.	7,755.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
V 187	2'-0" x 4'-0" Recessed mounted fluorescent lamp fittings with full parabolic polished aluminium mirror louvered diffuser and 2 nos of 36W fluorescent bulbs (T8) of "Simy" Brand & Model No:SIYPL-T8 or approved equivalent.	Nr.	10,325.00
V 188	2'-0" x 4'-0" Recessed mounted fluorescent lamp fittings with full parabolic polished aluminium mirror louvered diffuser and 3 nos of 36W fluorescent bulbs (T8) of "Simy" Brand & Model No:SIYPL-T8 or approved equivalent.	Nr.	10,325.00
V 189	2'-0" x 4'-0" Recessed mounted fluorescent lamp fittings with full parabolic polished aluminium mirror louvered diffuser and 4 nos of 36W fluorescent bulbs (T8) of "Simy" Brand & Model No:SIYPL-T8 or approved equivalent.	Nr.	11,225.00
	<u>others</u>		
V 190	Provide an earth electrode copper plate 2'-0" x 2'-0" x 3mm thick at 3.0m 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.(Earth wire paid separately)	Item	28,500.00
V 191	Provide an earth electrode 6'-0" long , 2" dia. x 3.6mm thick medium duty 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.(Earth wire paid separately)	Item	4,500.00
V 192	D'Bracket complete set (small size)	Nr.	140.00
V 193	Supply and install complete "D" shape bracket including insulator, Nuts, bolts ect. fixed to working order.	Per Set	235.00
V 194	Supply and install 50mm x 50mm x 6mm "L" Iron, including drilling 12mm holes, 10mm G.I. bolt, and application of anticorrosive paint all complete to working order.	L.ft.	240.00
V 195	Supply , nstallation and connection of 25 x 3mm copper tape with necessary accessories. Rate shall include for connection of both ends with brass.	L.ft.	520.00
V 196	Supply , installation and connection of 30A - 60A three phase with powder coated locable bus bar box including neutral bar and earth bar.	Nr.	7,670.00
V 197	Supply , installation and connection of 100A - 125A three phase with powder coated locable bus bar box including neutral bar and earth bar.	Nr.	11,160.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
V 198	Supply , installation and connection of 30A - 60A single phase with powder coated locable bus bar box including neutral bar and earth bar.	Nr.	5,600.00
V 199	Testing of the electrical installation and submission of certificate from a chartered Electrical Engineer registered at CEB.		
a)	For Building Floor Area Less than 2500 Sq. ft.	Item	9,000.00
b)	For Building Floor Area between 2500 - 5000 Sq. ft.	Item	20,000.00
c)	For Building Floor Area between 5000 - 10000 Sq. ft.	Item	40,000.00
d)	For Building Floor Area more than 10000 Sq. ft.	Item	60,000.00
V 200	Supply,install, commissioning and maintenance of an Individual solar powered 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	125,000.00
V 201	Supply & replacing one gang one way switch without wiring including removing old one.	Nr.	160.00
V 202	Supply & replacing two gang one way switch without wiring.Rate including removing old one.	Nr.	280.00
V 203	Supply & replacing three gang one way switch without wiring .Rate including removing old one.	Nr.	395.00
V 204	Supply & replacing four gang one way switch without wiring .Rate including removing old one.	Nr.	520.00
V 205	Supply & replacing five gang one way switch without wiring.Rate including removing old one.	Nr.	630.00
V 206	Supply & replacing 5 Amp. Switch socket outlet without wiring.Rate including removing old one.	Nr.	245.00
V 207	Supply & replacing 15 Amp. Switch socket outlet without wiring.Rate including removing old one.	Nr.	550.00
V 208	Supply & replacing 13 Amp. Switch socket outlet without wiring.Rate including removing old one.	Nr.	475.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
	<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- BS 1474:1972 Surface treatment shall confirm to BS 1615 and BS 3987		
2	Anodized coating thickness should be 25 ± 5 microns		
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 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		

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
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. <p>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.</p>		
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.		

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
	<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.	1,550.00
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.	1,450.00
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.	1,475.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
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.	1,300.00
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.	1,200.00
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.	1,200.00
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.	1,400.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
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.	1,220.00
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.	900.00
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.	1,200.00
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.	1,250.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
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 woolled 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.	1,240.00
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 woolled 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.	1,290.00
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 woolled 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.	1,250.00
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 woolled 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.	1,200.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
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.	1,150.00
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.	1,160.00
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.	850.00
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.	1,050.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
	<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.	1,470.00
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.	1,380.00
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.	1,350.00
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.	1,300.00
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.	1,200.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
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.	1,250.00
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.	1,150.00
W 27	<u>Sliding Window with Fixed Glass on Top (2 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 11 - W8	Sq.ft.	1,050.00
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.	930.00
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.	1,245.00
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.	1,130.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
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.	1,085.00
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.	1,110.00
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.	1,055.00
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.	1,025.00
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.	1,300.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
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.	1,275.00
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.	1,080.00
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.	905.00
W 39	<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.	890.00
W 40	<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.	725.00
W 41	<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.	1,630.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
W 42	<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.	1,450.00
W 43	<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.	1,745.00
W 44	<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.	1,515.00
W 45	<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.	925.00
W 46	<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.	940.00
	<u>Fixed Glazed Window</u>		
W 47	Natural aluminium fixed glazed window with 5mm thick clear glass and screws, pop rivots, gasket and wool felt etc.	Sq.ft.	975.00
	<u>Partitions</u>		
	<u>Fully Board Partition with Laminated Plywood (two sheets kept back to back)</u>		
W 48	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.	305.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
	<u>Fully Board Partition with Melamine MDF</u>		
W 49	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.	400.00
	<u>Full Board Partition with both sides Polyester coated Aluminium Composite Panel of 4mm thick</u>		
W 50	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.	860.00
	<u>Glazed & Board Partition with Laminated Plywood (two sheets kept back to back) & 5mm Tinted Glass</u>		
W 51	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.	400.00
W 52	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.	365.00
	<u>Gypsum Board Partition</u>		
W 53	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.	360.00
	<u>Partition Doors</u>		
	<u>TYPE-I - Partition Door Fully Panelled with Laminated Plywood (two sheets kept back to back)</u>		
W 54	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 woolled 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.	1,080.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
W 55	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 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 - D22	Sq.ft.	730.00
	<u>TYPE-II - Partition Door Panelled with one part glazing and other part with laminated plywood (two sheets kept back to back)</u>		
W 56	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.	1,105.00
W 57	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.	745.00
	<u>Door Pull Handle</u>		
W 58	Supplying and fixing " Hexzagon type "stainless steel door pull handle fixed complete to working order.(12")	Nr.	3,650.00
	<u>Floor Hinge</u>		
W 59	Supplying & fixing heavy duty floor hinge of VVP Brand or approved equivalent with one year written warranty from authorized agent.	Nr.	9,620.00
	<u>Door closer</u>		
W 60	Supplying & fixing heavy duty door closer of Union Brand & Model no. 8573 or approved equivalent.	Nr.	12,875.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
	<u>IRON GRILL</u>		
W 61	Supply , fabrication and installation of welded Diamond shaped Iron grill, consisting 20mm x 6mm thick flat iron frame and 5mm 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.	425.00
W 62	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, 5mm 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.	335.00
W 63	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 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. The fixed window grill fabricated with 20mm x 6mm thick flat iron outer frame and two mullions, 5mm 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.	475.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
W 64	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.	645.00
W 65	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.	680.00
	<u>COLLAPSIBLE DOOR</u>		
W 66	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.	1,200.00
	<u>ROLLER DOORS</u>		
W 67	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.	725.00
W 68	Supply and fixing the motor with two remotes for the roller door.	Item	33,750.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
	<u>MILD STEEL BALUSTRADE</u>		
W 69	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.	2,070.00
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 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.	2,300.00
W 71	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.	2,155.00
W 72	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.	835.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
W 73	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.	3,750.00
	<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.	285.00
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.	365.00
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, bolts & washers etc, and applying two coats of Anti -Corrosive paint.	L.ft.	400.00
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.	700.00
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.	930.00
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.	1,150.00
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 separators @ 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.	735.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
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 separators @ 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.	925.00
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 separators @ 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.	1,065.00
	<u>Mild steel Roof truss</u>		
Y 10	Mild steel Roof truss for Calicut tile roofing 20'-0" (6.0m) 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. 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.	57,250.00
Y 11	Mild steel Roof truss for Asbestos roofing 20'-0" (6.0m) span centre to centre, Maximum spacing 10'-0" , 12° 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.	54,500.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
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.	65,100.00
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.	61,000.00
Y 14	Mild steel Roof truss for Calicut tile roofing 30'-0" (9.0m) 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. 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.	99,850.00
Y 15	Mild steel Roof truss for Asbestos roofing 30'-0" (9.0m) span centre to centre, Maximum spacing 10'-0", 12 ⁰ 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.	91,600.00
	<u>Steel Scaffolding Set</u>		

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
Y 16	Supplying and erecting steel scaffolding sets. Rate to include for dismantling same after completion of work.	Set per day	80.00
	<u>Zinc Alum Roofing</u>		
Y 17	Supplying and fixing zinc aluminium color bond standard ridge cap to existing sheet roof using new fasteners.	L.ft.	385.00
Y 18	Supply and fix proprietary coated zincalum gutter (minimum base metal thickness of sheet 0.4mm and minimum total thickness 0.47mm) 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.	630.00
Y 19	Supply and fix proprietary coated zincalum square down pipe (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.	500.00
Y 20	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.	345.00
Y 21	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.	660.00
Y 22	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.	6,790.00
Y 23	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.	21,600.00
Y 24	Supply and fixing high tensile Galvanized iron "C" channels of 100 x 50 x 15 x 2.0mm thick	L.ft.	360.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
Y 25	Supply and fixing high tensile Galvanized iron "C" channels of 125 x 60 x 20 x 2.0mm thick	L.ft.	410.00
Y 26	Supply and fixing high tensile Galvanized iron "C" channels of 150 x 65 x 20 x 2.0mm thick	L.ft.	445.00
	<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	24,580.00
Z 02	Demolishing cement concrete and clearing debris in floors from 4" to 6" thick floors.	Cube	11,230.00
Z 03	Demolishing reinforced cement, concrete in lintol of 9" x 6" removing reinforcement and clearing debris.	L.ft.	35.00
Z 04	Demolishing reinforced cement, concrete in lintol of 4 1/2"x 6" removing reinforcement and clearing debris.	L.ft.	30.00
Z 05	Demolishing brick piers, stacking brick and clearing debris away.	Cube	1,605.00
Z 06	Demolishing 9" thick brick walls stacking brick and clearing debris away.	Cube	1,930.00
Z 07	Demolishing 4 1/2" thick brick walls stacking brick and clearing debris away.	Sqr.	725.00
Z 08	Demolishing 3" thick brick paved floors and clearing debris away.	Sqr.	935.00
Z 09	Demolishing drains and clearing debris away.	L.ft.	30.00
Z 10	Demolishing rubble masonry built in cement and sand, stacking rubble and clearing debris away.	Cube	2,570.00
Z 11	Demolishing floor tiles and clearing debris away.	Sqr.	2,185.00
Z 12	Demolishing wall tiles and clearing debris away.	Sqr.	1,765.00
Z 13	Chipping cement rendering and clearing debris away.	Sqr.	1,405.00
Z 14	Chipping cement plastering and clearing debris away.	Sqr.	965.00
Z 15	Chipping lime plastering and clearing debris away.	Sqr.	480.00
Z 16	Chipping cement plaster in soffits and clearing debris away.	Sqr.	1,445.00
	<u>Masonary 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.	16,825.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
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.	6,510.00
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.	6,020.00
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.	7,695.00
	<u>Roof work</u>		
Z 21	Removing and stacking calicut tile or half round tile from roof in single storied building.	Sqr.	625.00
Z 22	Removing and stacking calicut tile or half round tile from roof in two storied building.	Sqr.	965.00
Z 23	Removing and stacking calicut tile or half round tile from roof in three storied building.	Sqr.	1,285.00
Z 24	Removing and stacking corrugated asbestos sheet from roof in single storied building.	Sqr.	480.00
Z 25	Removing and stacking corrugated asbestos sheet from roof in two storied building.	Sqr.	640.00
Z 26	Removing and stacking corrugated asbestos sheet from roof in three storied building.	Sqr.	800.00
Z 27	Removing roof tiles/asbestos sheets and timber frame work, stacking serviceable materials and clearing debris away in single storied building.	Sqr.	1,285.00
Z 28	Removing roof tiles/asbestos sheets and timber frame work, stacking serviceable materials and clearing debris away in two storied building.	Sqr.	1,605.00
Z 29	Removing roof tiles/asbestos sheets and timber frame work, stacking serviceable materials and clearing debris away in three storied building.	Sqr.	1,930.00
Z 30	Removing and stacking calicut ridge tile.	L.ft	40.00
Z 31	Removing and stacking asbestos ridging.	L.ft	30.00
Z 32	Removing 2" x 1" reapers , 2" x 2" battens ,stacking at site and clearing debris away in single storied building.	L.ft	6.00
Z 33	Removing 2" x 1" reapers , 2" x 2" battens ,stacking at site and clearing debris away in two storied building.	L.ft	10.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
Z 34	Removing 2" x 1" reepers , 2" x 2" battens ,stacking at site and clearing debris away in three storied building.	L.ft	12.00
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	12.00
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	16.00
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	20.00
Z 38	Removing 5" x 3" / 5" x 2" purlings , stacking at site and clearing debris away in single storied building.	L.ft	20.00
Z 39	Removing 5" x 3" / 5" x 2" purlings , stacking at site and clearing debris away in two storied building.	L.ft	22.00
Z 40	Removing 5" x 3" / 5" x 2" purlings , stacking at site and clearing debris away in three storied building.	L.ft	25.00
Z 41	Removing and stacking valance/Barge board materials and clearing debris away in single storied building.	L.ft	12.00
Z 42	Removing and stacking valance/Barge board materials and clearing debris away in two storied building.	L.ft	16.00
Z 43	Removing and stacking eaves gutter from roof of single storied buildings.	L.ft	16.00
Z 44	Removing and stacking eaves gutter from roof of two storied building.	L.ft	25.00
Z 45	Removing and stacking down pipes from roof of single storied building.	L.ft	15.00
Z 46	Removing and stacking down pipe from roof of two storied building.	L.ft	20.00
Z 47	Removing and stacking G.I. Valley gutter and flashing.	L.ft	32.00
Z 48	Re-laying available calicut tiles on the roof in single storied building.	Sqr.	640.00
Z 49	Re-laying available calicut tiles on the roof in two storied building.	Sqr.	800.00
Z 50	Re-laying available calicut tiles on the roof in three storied building.	Sqr.	965.00
Z 51	Re-laying available asbestos sheets on the roof in single storied building.	Sqr.	1,030.00
Z 52	Re-laying available asbestos sheets on the roof in two storied building.	Sqr.	1,285.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
Z 53	Re-laying available asbestos sheets on the roof in three storied building.	Sqr.	1,545.00
Z 54	Fixing available Reepers with wire nails.	L.ft	7.00
Z 55	Fixing sorted out & cut to required size available timber to roof or other carpentry work.	C.ft	880.00
Z 56	Fixing available corrugated asbestos sheet with hooks , nuts and bolts to roofing.	Sqr.	1,970.00
Z 57	Supply and fixing hooks, nuts & bolts for existing asbestos roof.	Nr.	30.00
Z 58	Ridge tile bedded in lime cement motor 1:1:4 and coloured to match tiles.(Ridge tile available at site)	L.ft	105.00
Z 59	Fixing of available barge/Valance boards & fascia including cutting and minor repairs.	L.ft	25.00
Z 60	Refixing existing G.I. Valley gutter and flashing including repairing any damaged areas.	L.ft	100.00
Z 61	Fixing of existing gutter and down pipe including brackets and repairing any damages to the wall.	L.ft	45.00
	<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.	1,480.00
Z 63	Removing asbestos ceiling sheets including timber frame work, stacking serviceable materials and clearing debris away in two storied building.	Sqr.	2,120.00
Z 64	Removing ceiling timber frame work, stacking serviceable materiel and clearing debris away in single storied buildings.	Sqr.	355.00
Z 65	Removing ceiling timber frame work, stacking serviceable materiel and clearing debris away in two storied buildings.	Sqr.	515.00
Z 66	Removing existing ceiling sheet, stacking materials at the site and clearing debris away.	Sqr.	835.00
Z 67	Renewing in small quantities of 6" x 5/8" - 3/4" lunumidella ceiling including scaffolding up to 30'-0" high.	L.ft	70.00
Z 68	Fixing available lunumidella ceiling planks with new wire nails.	Sqr.	2,885.00
Z 69	Supplying and fixing 1 1/2" x 1/2" thick Beading , Halmilla or equivalent, planning & chamfering complete with brass screws.	L.ft.	65.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
	<u>Doors & Windows</u>		
Z 70	Removing and stacking door sash only up to 40 S.ft from existing walls.	Nr.	170.00
Z 71	Removing and stacking door sash only over 40 S.ft from existing walls.	Nr.	255.00
Z 72	Removing and stacking door or window frame size up to 40 S.ft from existing walls.	Nr.	1,250.00
Z 73	Removing and stacking door or window frame size over 40 S.ft from existing walls.	Nr.	1,870.00
Z 74	Removing and stacking window sash only up to 40 S.ft from existing walls.	Nr.	170.00
Z 75	Removing and stacking window sash only over 40 S.ft from existing walls.	Nr.	255.00
Z 76	Removing and stacking trellis work	Sq.ft.	16.00
Z 77	Removing and stacking glass panes in doors, windows and fanlights.	Sq.ft.	50.00
Z 78	Renewing in short lengths with approved timber in existing door or window frames .	L.ft.	500.00
Z 79	Door or window frame altering existing rebate fillet using approved quality timber with screws and fixing available sashes.	Nr.	3,190.00
Z 80	Fixing available door or window frame.	Sq.ft.	30.00
Z 81	Fixing available door or window sash.	Sq.ft.	21.00
Z 82	Removing damage sashes of door or window and preparing & re-fixing.	Per sash	350.00
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.	315.00
Z 84	Supply and fixing 3mm thick glass panes for the existing door / window or fanlight sashes with approved timber beading.	Sq.ft.	220.00
	<u>Sanitary</u>		
Z 85	Removing wash basin , sink or urinals including all fittings and making walls good.	Nr.	415.00
Z 86	Removing squatting pan & standing types water closet with plugging sewer connection and repairing the wall & floor.	Nr.	1,605.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
Z 87	Disconnecting flushing cistern and removing with plugging water connection and making good of all damaged walls, floors & etc.	Nr.	1,435.00
Z 88	Removing 1/2" to 1 1/2" dia. bib tap or stop cock.	Nr.	55.00
Z 89	Fixing available ball valve.	Nr.	170.00
Z 90	Fixing lavatory type basin to existing brackets. (Tap , waste pipe and basin are available)	Nr.	1,415.00
Z 91	Fixing of wash basin, leveling and connecting to existing water connections and making good (Basin, bracket and fittings are available)	Nr.	1,790.00
Z 92	Repairing bib taps and stop cocks by fixing leather washers.	Nr.	175.00
Z 93	Removing & repairing pillar tap and re-fixing to the wash basin carefully without any damaged.	Nr.	290.00
Z 94	Supply & fixing Universal bend of "Rocell" brand & model "Vario Joint" or approved equivalent.	Nr.	1,025.00
	<u>Painting</u>		
Z 95	Removing painting from walls and clearing debris away.	Sqr.	640.00
Z 96	Removing enamel paint from door or window frame and clearing debris away.	Sqr.	1,285.00
Z 97	Removing paint from painted glass panes with paint remover.	Sq.ft.	45.00
Z 98	Removing water proof layers and/or hot bitumen from concrete floors or flat roof and clearing debris away.	Sqr	2,495.00
Z 99	Painting ceiling beading with two coats of enamel paint.	L.ft	13.00
Z 100	Painting existing ceiling fan with one coat of anti-corrosive paint & two coats of enemel paint including removing corroded scale and wire brushing.	Nr.	735.00
	<u>Other</u>		
Z 109	Supplying and placing 4" dia.PVC (Type 250) wheep holes.	L.ft	133.00
Z 110	Supplying and placing 2" dia.PVC (Type 400) wheep holes.	L.ft	150.00
Z 111	Removing existing mortice lock repairing and re-fixing.	Nr.	560.00
Z 112	Removing and stacking partitions at site including making good to walls & floors.	Sq.ft.	20.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
	<u>Transporting</u>		
Z 113	Transporting debris cleared away from site by tractor (approx.. Dumping up to 10 Miles away).Rate shall include loading.	Per Load	3,200.00
Z 114	Transporting debris cleared away from site by 3.5 Cubes capacity heavy vehicle. Rate to inclusive of loading with JCB machine (approx.. 20 Miles away).	Per Load	5,500.00
	<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.	Per 8 Hour day Per Person	1,500.00
AA 02	Engaging labour services in un-skilled category of any type of manual work on a 8 hour day basis.	Per 8 Hour day Per Person	1,250.00
AA 03	Pumping water using 2" dia. water pump.	Per 8 Hour Day	2,440.00
	<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.	100.00
AA 05	Supplying and fixing 2" dia.x 3.6mm thick Medium quality GI pipe up to 10'-0" clear height above ground and 2'-0" length inserted in a excavation 1'-0"x 1'-0"x 3'-0" filled with 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.	760.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
AA 06	Supplying and fixing 3" dia.x 4mm thick Medium quality GI pipe up to 8'-0" clear height above ground and 2'-0" length inserted in a excavation 1'-0"x 1'-0"x 3'-0" filled with 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.	1,060.00
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.	135.00
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.	240.00
AA 09	Supplying and fixing 1" dia. x 3.2mm 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.	290.00
	<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.	21.00
AA 11	Supplying & fixing pre-cast concrete Intermediate Posts of size (5" x 5") - (3" x 3") & 5'-9" high for 6 strands including necessary excavation and errecting the post and concreting the base with 1:3:6(1").	Nr.	1,410.00
AA 12	Supplying & fixing pre-cast concrete End Posts of size (5" x 5") & 5'-9" high for 6 strands including necessary excavation and errecting the post and concreting the base with 1:3:6(1").	Nr.	2,290.00
	<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.		

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
	(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.	100.00
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.	60.00
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.	40.00
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.	130.00
	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.		
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	40,000.00
	<u>ROOT BOWLLING OF PLANTS</u>		
AB 06	Supply & Planting maximum 5'-0" girth and 10'-0" - 12'-0" high Atteria Plant with the fertilizing , watering & plant should be maintain for a 1 year period.	Nr.	5,400.00
AB 07	Supply & Planting maximum 5'-0" girth and 10'-0" - 12'-0" high Ehala with the fertilizing , watering & plant should be maintain for a 1 year period.	Nr.	5,400.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
AB 08	Supply & Planting maximum 5'-0" girth and 10'-0" - 12'-0" high Araliya Plant with the fertilizing , watering & plant should be maintain for a 1 year period.	Nr.	5,400.00
AB 09	Supply & Planting maximum 5'-0" girth and 10'-0" - 12'-0" high Kiripalu Plant with the fertilizing , watering & plant should be maintain for a 1 year period.	Nr.	5,400.00
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 1 year period.	Nr.	6,500.00
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 1 year period.	Nr.	3,250.00
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 1 year period.	Nr.	4,300.00
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 1 year period.	Nr.	6,500.00
	<u>Paving Blocks</u>		
	Natural Colour Blocks - Item No. AB 14 - AB 19		
AB 14	Supply & paving 80mm thick Rectangular(Approx. size 210mm 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. 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.	27,430.00
AB 15	Supply & paving 80mm thick Rectangular (Approx. size 210mm 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. 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.	25,100.00
AB 16	Supply & paving 60mm thick Rectangular (Approx. size 210mm 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. 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.	19,970.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
AB 17	Supply & paving 80mm thick Non-Rectangular (Approx. size 200mm 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. 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.	34,600.00
AB 18	Supply & paving 80mm thick Non-Rectangular (Approx. size 200mm 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. 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.	30,065.00
AB 19	Supply & paving 60mm thick Non-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. 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.	23,830.00
	Coloured Blocks - Item No. AB 20 - AB 25		
AB 20	Supply & paving 80mm thick Rectangular (Approx. size 210mm 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. 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.	31,630.00
AB 21	Supply & paving 80mm thick Rectangular (Approx. size 210mm 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. 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.	29,300.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
AB 22	Supply & paving 60mm thick Rectangular (Approx. size 210mm 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. 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.	23,235.00
AB 23	Supply & paving 80mm thick Non-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. 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.	38,570.00
AB 24	Supply & paving 80mm thick Non-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. 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.	34,035.00
AB 25	Supply & paving 60mm thick Non-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. 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.	28,365.00
	<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.	335.00
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.	465.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
AB 28	Supply & paving pre cast concrete Curb size 125mm x 255mm x 915mm of 25 N/mm2 compressive strength laid with 1:3 cement mortar on top of a well compacted earth sub base.	L.ft.	455.00
	<u>CEMENT FLOWER POTS</u>		
AB 29	Supply & placing of 12" dia. Cement pots 4'-0" high (size approximate)	Nr.	1,400.00
AB 30	Supply & placing of 18" dia. Cement pots 4'-0" high (size approximate)	Nr.	2,600.00
AB 31	Supply & placing of 24" dia. Cement pots 4'-0" high (size approximate)	Nr.	3,400.00
AB 32	Supply & placing of 28" dia. Cement pots 4'-0" high (size approximate)	Nr.	6,800.00
AB 33	Supply & placing of 48" dia. Cement pots 4'-0" high (size approximate)	Nr.	9,100.00
	<u>CEMENT FLOWER POTS OF TAPERING SQUARE CROSS-SECTION</u>		
AB 34	Supply & placing of 8"x8" and 12"X12" TAPER FLOWER POT 12" high (size approximate)	Nr.	1,150.00
AB 35	Supply & placing of 10"x10" and 15"X15" TAPER FLOWER POT 18" high (size approximate)	Nr.	2,150.00
AB 36	Supply & placing of 6"x6" and 12"X12" TAPER FLOWER POT 33" high (size approximate)	Nr.	2,975.00
	<u>CEMENT FLOWER POTS OF SQUARE CROSS-SECTION</u>		
AB 37	Supply & placing of 8"X8" SQUARE FLOWER POT 12" high (size approximate)	Nr.	1,150.00
AB 38	Supply & placing of 15"X15" SQUARE FLOWER POT 15" high (size approximate)	Nr.	2,350.00
AB 39	Supply & placing of 18"X18" SQUARE FLOWER POT 18" high (size approximate)	Nr.	3,225.00
AB 40	Supply & placing of 24"X24" SQUARE FLOWER POT 24" high (size approximate)	Nr.	5,440.00
	<u>AC - NEW ITEMS</u>		
	<u>Roof Work</u>		
AC 01	Supply 30mm thick Zinc/aluminium roofing sandwich panel.	Sqr.	51,670.00

ITEM NO.	DESCRIPTION	UNIT	RATE 2015
AC 02	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.	6,030.00
	<u>Ceiling</u>		
AC 03	Supply and installation of metal spray type ceiling of 600mm x 600mm suspended to the slab with hot dip galvanized " T " bars of 14mm x 38mm and wall angles of 19mm x 24mm suspended with 4mm dia. galvanized hanger rods.	Sq.ft.	475.00
	<u>Tempered Glass</u>		
AC 04	Supplying and fixing 12mm laminated tempered glass door with frame. Rate including with nut and approved quality hinges, door handle with cap nut.	Sq.ft	3,000.00
AC 05	Supplying and installation of laminated tempered glass with 2"x 2" Stainless steel frame work. Rate shall include for fixing	Sq.ft	4,700.00
	<u>Plumbing</u>		
AC 06	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'-0" highd sand filling)	L.ft.	2,750.00
	<u>Drainage</u>		
AC 07	Supplying & fixing heavy duty Cast Iron manhole cover(open type) size of 15" x 15" including cover frame.	No	3,500.00
AC 08	Construction of Shoe drain (in Grade 20 Concrete of width 18" , average thickness 8" , height 12" .)	L.ft	1,500.00
	<u>Landscaping</u>		
AC 09	Supplying and installation of garden taps	Nos	150.00
	<u>Miscellaneous</u>		
AC 12	Supplying & fixing 3" dia. G.I cap on G.I pipe posts as directed.	No	300.00
AC 13	Supplying and fixing 10'-0" 'x3'-6" size green board for class rooms	Sqr.	39,850.00
AC 14	Compressed Stabilized Earth blocks of size 220mm X 220mm X 130mm (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/mm ² , Wet compressive strength - grade 3> 1.2 up to 1.6 N/mm ² . 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.	43,240.00