

CONSTRUCTION OF STATION BUILDING AT MAHO JUNCTION

ITEM. NO	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
A	PRELIMINARIES				
	<u>General Notes</u>				
	This Bill provides for the typical general items complimentary to the works which are required to be provided by the contractor in compliance with the condition of contract and contract data in the execution of the works according to the Contract.	Note			
	Any Preliminary item not listed bellow but deemed to be included in the tender rates, as no extras would be made.	Note			
	Cost and expenses in connection with any other preliminary item which is not listed below or not covered by any other items, but is necessary for the due completion of works, is deemed to be included in the Bid rates.	Note			
	<u>Mode of Payment</u>				
(i)	Reimbursement of actual cost on submission of the relevant documents including originals of receipt notes and acceptable to the engineer plus 5% of the actual cost obtaining the Insurance Policies and Securities: A-1 to A-3	Note			
(ii)	60% on completion of temporary buildings or structures.30% installments over the contract period and balance 10% on dismantalling and removal on completion. A-4, A-6, A-7,A-8,A-9& A-10	Note			
(iii)	The Contractor shall be paid sum quoted on completion of work to the satisfaction of the Engineer for items A-14, A-19 & A-20	Note			
(iv)	The Contractor shall be paid the quoted sum in equal instalments over the construction period for the items A-5, A-11, A-12 & A-13	Note			
A-1	Allow sum for providing Mobilization Advance Payment Guarantee.	Item	Sum		
A-2	Allow sum for providing Performance guarantee.	Item	Sum		
A-3	Allow sum for providing insurance of works, plant & machinery, materials, third party & insurance against accidents & injury to workmen (All the insurances should be submitted for the end of defect liability period.)	Item	Sum		
	Facilities for the Engineer				
A-4	Allow sum for constructing, maintaining, dismantaling and removal on completion of the Works, a temporary building for Engineer's office of adequate size with all necessary facilities as specified in the contract, in conformity with the plans prepared by the contractor and concurred by the Engineer.	Item	Sum		
A-5	Allow sum for providing and maintaining Electricity, Drinking water, telephone & other services required to the Engineer's office throughout the project duration.	Item	Sum		
A-6	Allow sum for providing and maintaining Accomodations for Engineer's staff of site.	Item	Sum		
	C/F				-

ITEM. NO	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
	B/F				-
A-7	Allow sum for vehicle use of the Engineer, including fuel, allowance for driver, insurance and all other associated operating cost	Month	10.00		
	Facilities for the Contractor				
A-8	Allow sum for construct, furnish and maintain of a temporary site office of adequate size for the Contractor's Management staff. stores, work shop & other temporary buildings.	Item	Sum		
A-9	Allow sum for providing and maintaining Accommodations for Contractor's staff and workers off site.	Item	Sum		
A-10	Allow lump sum for construction and maintain of temporary sheds for storage of materials, sheds necessary for carpentry, bar bending etc. Details of layout to be supplied with tender.	Item	Sum		
	Service and Facilities				
A-11	Allow for providing safety, health and sanitary facilities for Engineer's staff, contractor's staff and workmen.	Item	Sum		
A-12	Allow sum for supplying of Temporary electricity for the Works including connction,distribution system fot the work,internal arrangements and all payment to authorities for the consumption.	Item	Sum		
A-13	Allow sum for supplying of Water for the Works and paying all charges and other expenses in connection with the supply from water mains or any other alternative method of uninterrupted water supply, storage and reticulation.	Item	Sum		
A-14	Allow a lump sum for preparation and submission of As-built drawings for all services, including 2 sets of hard copies and soft copies, duly signed and certified by a Chartered Engineer , complete in all respects and submitted for the Engineer's approval.	Item	Sum		
	Allow lump sum for employing suitably qualified and experienced technical personal for Construction management and supervision Services at the site. CV's with originals of certificates should be provided by the Contractor for prior approval. Payments will be made on their daily attendance basis.				
A-15	Project Manager (Part Time)	Month	8.00		
A-16	Site Engineer (Full Time)	Month	10.00		
A-17	Quantity Surveyor(Part Time)	Month	8.00		
A-18	Technicle Officer(Full Time)	Month	10.00		
A-19	Allow for security services for protecting safe guarding the works, materials and plants against trespass or theft untill hand over the site and special attention to work within the railway premises to ensure the safety of railway staff, passengers and physical properties of railway premises.	Month	10.00		
A-20	Allow lump sum for demobilization removal of all rubbish & debris and clearing up site on completion levelling all in good order and handing order.	Item	Sum		
A-21	Allow for instalation of Diesel Generator on rental basis as necessary.	Item	Sum		
	Total for Bill A-Prelliminaries Carried to Grand Summary			LKR	-

ITEM. NO	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
B	<u>DEMOLISHING, EXCAVATION & EARTH WORKS</u>				
	The quantities given below are provisional quantities only. The actual quantities shall be determined at the time of construction depending on the site condition and as recommended by the Engineer.	Note			
	Rate shall include for;				
	a) Leveling bottom of trenches & keeping sides plumb by shoring, stepping, strutting etc.				
	b) Disposal of surplus soil as directed & keeping all excavations free from water.				
	c) Dewatering if required by portable self priming diesel engine driven centrifugal pump with suction and delivery hoses 75mm(3") minimum or equivalent.				
B-1	Demolishing existing building, including all structural and non - structural elements such as roof covering, brick/block walls, foundations, floor slabs, plinths and any concrete bases, doors, windows, shutters & all fixtures, electrical and plumbing installation (if any) including careful dismantling to avoid damage to adjacent structures, sorting and stacking of reusable materials as directed by the Engineer. Removal and disposal debris, rubbish and unusable materials to approved dumping locations.			Provisional Sum	500,000.00
B-2	Clearing site and grubbing up all small trees not exceeding 500mm girth including bushes, scrubs, undergrowth hedges etc. and depositing as directed within the site as per engineer's instruction.	m ²	1,329.00		
B-3	Disposal of surplus earth to place where up to 10km away from the site as directed by the engineer. Rate shall be included loading and unloading	m ³	200.00		
B-4	Excavation in trenches for column pits, wall, staircase foundations in ordinary soil up to a depth 1.5m and depositing excavated material to a distance within the site as directed.	m ³	275.00		
B-5	<u>Earth Work Supports</u> Temporary Earth work support (open planking) in trenches upto a depth of 1.5m.	m ²	1,359.00		
	<u>Filling & Compaction</u> <u>Note:-</u> Approved earth shall mean filling materials that comply to the following : The earth spreading, leveling, watering and compaction using standard cast iron tamper or equivalent and filling in 150mm thick layers in restricted areas. Earth measured as a volume in loose state before spreading and compaction.				
B-6	Filling under floors with gravel or other approved quality material (not available at site) supplying, filling, spreading, leveling, watering and compaction in 150mm layers as per engineer's instruction. Quantity is measured on compacted volume.	m ³	538.00		
	C/F				

ITEM. NO	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
	B/F				-
B-7	Antiterminate treatment for the new construction with supplying and applying Biflexthrine 10Tc (Biflex) or approved equivalent as per relevant standards of application with 10 years guaranty, including horizontal & vertical barriers by an approved specialist pest control contractor (Approved chemicals in pesticide dept), all as per engineer's instructions, only pay floor area. Rate shall be included sand filling or approved filling with surface preparation.	m ²	1,088.00		
	Total for Bill B-Demolishing, Excavation and Earth Work Carried to Gr			LKR	-

ITEM. NO	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
	<u>Reinforcement</u> All reinforcement shall be as per relevant British Standards having minimum characteristics strength of 460N/mm ² for High Yield steel and 250 N/mm ² for mild steel. Rate shall include for necessary tests as per BS4449 and SLS 375:2009 All reinforcement shall be free from mill scale, dirt,oil, paint, grease or loose rust before fixing in position and shall be brushed with a stiff wire brush as directed. Rate for reinforcement shall include for supplying, cleaning, cutting, bending, fabricating, binding wires, placing in position, and the provision of all necessary supporting bars, hangers, space bars,chairs,wastage & curved shapes r/f etc.	Note			
	Grade 15 (40mm) concrete 50mm thick cement concrete 1:3:6(40mm) screed in foundation & column base including placing in position and curing using Concrete Mixer.	m ³	15.00		
	<u>Work up to D.P.C. level</u> Supply and laying Damp Proofing, Horizontal gauge 750 polythene membrane.	m ²	595.00		
	Mixing & placing in position 100mm thick cement concrete with 1 : 2 : 4 (20) mixture in floors using concrete mixer	m ²	60.00		
	Providing and laying 10mm thick polystyrene (EPS) layer in foundation including cutting, placing in position, jointing, and all necessary labour, materials, tools, and incidentals, complete as per Engineer's instructions.	m ²	47.00		
	Supply and installation of 10mm wide expansion joint in 100mm thick ground floor slab including 15 x 55/105mm polystyrene and 20mm high approved mastic filler	m	122.00		
	Grade 25 (20) concrete In column Bases	m ³	33.00		
	In columns shafts (300mm X 300mm)	m ³	8.00		
	In columns shafts (450mm dia)	m ³	5.00		
	In columns shafts (600mm dia)	m ³	3.00		
	In Tie Beam	m ³	26.00		
	12mm thick laminated plywood shuttering In column Bases	m ²	120.00		
	In columns shafts (300mm X 300mm)	m ²	99.00		
	In columns shafts (450mm dia)	m ²	41.00		
	In columns shafts (600mm dia)	m ²	15.00		
	In sides of Tie beams	m ²	224.00		
	Reinforcement Tor steel bars in column footings	Kg	1,188.00		
	- do - bars in columns shafts (300mm X 300mm)	Kg	870.00		
	- do - bar In columns shafts (450mm dia)	Kg	2,394.00		
	C/F				-

ITEM. NO	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
	B/F				-
C-19	- do - bar In columns shafts (600mm dia)	Kg	1,136.00		
C-20	- do - bars in Stairway	Kg	500.00		
C-21	- do - Tie beam	Kg	1,400.00		
C-22	6mm dia. Mild Steel stirrups in columns	Kg	199.00		
C-23	- do - Tie beam	Kg	750.00		
	<u>From DPC to first floor level</u>				
	Grade 25 (3/4") concrete				
C-24	In columns shafts (300mm x 300mm)	m ³	13.00		
C-25	In columns shafts (450mm dia)	m ³	10.00		
C-26	In columns shafts (600mm dia)	m ³	5.00		
C-27	In beams (225mm x 300mm)	m ³	1.00		
C-28	In beams (300mm x 350mm)	m ³	25.00		
C-29	In beams (300mm x 400mm)	m ³	2.00		
C-30	In beams (300mm x 500mm)	m ³	3.00		
C-31	In 125mm thk. R.C.C. slab	m ³	42.00		
C-32	In Stairway	m ³	4.00		
	12mm thick laminated plywood shuttering				
C-33	In columns shafts (300mm x 300mm)	m ²	162.00		
C-34	In columns shafts (450mm dia)	m ²	83.00		
C-35	In columns shafts (600mm dia)	m ²	30.00		
C-36	In sides of beams (225mm x 300mm)	m ²	2.00		
C-37	In sides of beams (300mm x 350mm)	m ²	182.00		
C-38	In sides of beams (300mm x 400mm)	m ²	13.00		
C-39	In sides of beams (300mm x 500mm)	m ²	15.00		
C-40	In sides & Soffit of Slab	m ²	436.00		
C-41	In sides & soffit of stairway	m ²	38.00		
	Reinforcement				
C-42	Tor steel bars in columns shafts (300mm x 300mm)	Kg	1,000.00		
C-43	In columns shafts (450mm dia)	Kg	300.00		
C-44	In columns shafts (600mm dia)	Kg	145.00		
C-45	Tor steel bars in beams (300mm x 350mm)	Kg	2,019.00		
C-46	Tor steel bars in beams (300mm x 400mm)	Kg	290.00		
C-47	Tor steel bars in beams (300mm x 500mm)	Kg	1,560.00		
C-48	Tor steel bars in 125mm thk. Slab	Kg	3,750.00		
C-49	6mm dia. Mild Steel stirups in columns	Kg	420.00		
	<u>From First floor level to Roof level</u>				
	Grade 25 (3/4") concrete				
C-50	In columns shafts (300mm x 300mm)	m ³	12.00		
C-51	In columns shafts (450mm dia)	m ³	8.00		
C-52	In columns shafts (600mm dia)	m ³	3.00		
C-53	In beams (225mm x 300mm)	m ³	1.00		
	C/F				-

ITEM. NO	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
	B/F				-
C-54	In beams (300mm x 400mm)	m ³	2.00		
C-55	In beams (300mm x 550mm)	m ³	4.00		
C-56	In roof beams (225mm x 250mm)	m ³	19.00		
C-57	150mm thk. slab	m ³	7.00		
	12mm thick laminated plywood shuttering				
C-58	In sides of columns (300mm x 300mm)	m ²	144.00		
C-59	In columns shafts (450mm dia)	m ²	64.00		
C-60	In columns shafts (600mm dia)	m ²	23.00		
C-61	In sides of beams (225mm x 300mm)	m ²	4.00		
C-62	In sides of beams (300mm x 400mm)	m ²	12.00		
C-63	In sides of beams (300mm x 550mm)	m ²	25.00		
C-64	In sides of roof beams (225mm x 250mm)	m ²	143.00		
C-65	Soffit of beams and Slabs	m ²	61.00		
	Reinforcement				
C-66	Tor steel bars in columns shafts (300mm x 300mm)	Kg	40.00		
C-67	In columns shafts (600mm dia)	Kg	75.00		
C-68	Tor steel bars in beams (300mm x 550mm)	Kg	445.00		
C-69	Tor steel bars in beams (300mm x 400mm)	Kg	240.00		
C-70	Tor steel bars in beams (225mm x 300mm)	Kg	58.00		
C-71	Tor steel bars in 125mm thk. slab	Kg	540.00		
C-72	6mm dia. Mild Steel stirups in columns	Kg	47.00		
C-73	Mixing and Placing in Position Lintel, cement concrete grade G20, 225 x 150mm with 2 nos. 12mm dia. High yield strength bars including necessary form work - up to first floor level	m	241.00		
C-74	Mixing and Placing in Position Lintel, cement concrete grade G20, 225 x 150mm with 2 nos. 12mm dia. High yield strength bars including necessary form work - up to roof level	m	209.00		
C-75	75mm thick worktop in Grade 20 cement concrete with 10mm high yield strength at 150mm c/c both ways including necessary formwork. (width 600mm)	m ²	9.00		
	Total for Bill - Concrete Carried to Grand Summary			LKR	-

ITEM. NO	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
D	<u>MASONRY WORK</u> Rate shall include for; Supplying, erecting and removing of scaffolding where necessary. All rough and fair cutting, plumbing angles, normal straight cutting, forming rebated reveals and raking out joints for plastering. Cement blocks shall be confirming to SLS 855 and subjected to the approval of sample blocks Cement used should be relevant SLS Certified Products for Masonry work or Engineer's Instructions.				
D-1	150-225mm Random rubble masonry in cement and sand mortar 1:5 in foundation	m ³	191.00		
D-2	20mm thick 1:3 cement & sand DPC finished smooth with two coats of hot tar and blinded with course sand for wall foundation.	m ²	108.00		
D-3	150mm thick nominal solid block work in cement and sand mortar 1:5 with 400 x 150 x 200mm blocks Ground Floor.	m ²	581.00		
D-4	150mm thick solid block masonry in cement and sand mortar 1:5 mix.in First Floor.	m ²	509.00		
D-5	150mm thick solid block masonry in cement and sand mortar 1:5 mix.in Second Floor.	m ²	34.00		
	Total for Bill D-Masonry Work Carried to Grand Summary			LKR	-

ITEM. NO	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
E	<u>WATER PROOFING</u> The Water proofing material shall confirm to relevant British, Euro or ASTM Specifications The Contractor shall submit a written certificate stating that all material and workmanship are in conformity with the specifications and manufacture requirements The Contractor shall furnish a warranty to the Employer jointly with manufacturer/supplier 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 Rate shall include for; Clean the existing surface to be free from dust, cement laitance, grout deposits, etc. Lay 1:3 cement/sand screed to a slope towards gullies and Plaster finished rough on walls in the toilet areas up to a minimum height of 300mm and shower area 1800mm. Form 1:3 cement/sand 25mm×25mm angle fillets at all right angled edges. Protect the waterproofed area with 1:3 cement sand 20mm thick screed layer Application of flexible and cementitious waterproofing using Master seal 540 or approved equivalent for internal wet areas such as toilet floors and walls where the surfaces are not directly exposed to sunlight and weathering. Rate shall include for cleaning the substrate and all other work as per manufacturer's specifications on application and shall include ponding test for a 300mm water height kept for a period of 48 hours for horizontal surfaces.				
E-1	All toilets & Bathrooms in ground floor (floor & wall upto 1800mm height)	m ²	170.00		
E-2	All toilets & Bathrooms in first floor (floor & wall upto 1800mm height)	m ²	104.00		
E-3	Application of two coats of flexible and cementitious waterproofing material using Master seal 540 or approved equivalent capable to withstand temperature variation for wet areas exposed to sunlight and weathering. (balconies, sun-shades, concrete gutters etc.) rate shall include for cleaning the substrate and all other work as per manufacturer's specifications on application and shall include ponding test for a period of 48 hours for horizontal surfaces	m ²	120.00		
	Total for Bill E-Water Proofing Carried to Grand Summary			LKR	-

ITEM. NO	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
F	<u>FLOOR, WALL, COLUMNS & CEILING FINISHES</u>				
	<u>Plastering</u>				
	Rate shall include for	Note			
	a) Supplying, erecting & removing of scaffolding after completion of work where necessary.				
	b) All temporary rules, screeds grounds etc. for raking out joints of new block work or hacking new concrete for key, internal & curved angles, joints between different surfaces arises quirks, inter sections between curved or irregular surfaces, etc. and all making good around pipes, sanitary fittings & similar.				
	c) For coarse textured plaster (identified as "semi-rough") all the sand should pass through 4.0mm sieve.				
	(d) Supply and fixing of chicken mesh to joints between all block works and concrete works. (i.e. concrete column and blockwork joints)				
F-1	20mm thick plinth plaster in 1:3 cement - sand mortar finished smooth with neat cement floating	m ²	191.00		
F-2	Cement plastering with 1:5 mix, 15mm thick finished semi rough in external walls - up to first floor level	m ²	338.00		
F-3	Cement plastering with 1:5 mix, 15mm thick finished semi rough in external walls in up to roof level	m ²	343.00		
F-4	Cement plaster with 1:5 mix, 15mm thick finished smooth with skim coat in internal walls - up to first floor level	m ²	718.00		
F-5	Cement plaster with 1:5 mix, 15mm thick finished smooth with skim coat in internal walls - up to roof level	m ²	590.00		
F-6	15mm thick semi rough finished plaster to R.C.C. columns, beams and soffit of slab in cement - sand 1:3 mix- up to first floor level	m ²	926.00		
F-7	15mm thick semi rough finished plaster to R.C.C. columns, beams and soffit of slab in cement - sand 1:3 mix- up to roof level	m ²	475.00		
F-8	15mm thick plaster to R.C.C. columns, beams and soffit of slab in cement - sand 1:3 mix including floating with skimcoat- up to first floor level	m ²	577.00		
F-9	15mm thick plaster to R.C.C. columns, beams and soffit of slab in cement - sand 1:3 mix including floating with skimcoat- up to roof level	m ²	427.00		
F-10	Finish the soffit of slab smoothly by applying skim coat - up to first floor level	m ²	349.00		
F-11	Finish the soffit of slab smoothly by applying skim coat - up to roof level	m ²	48.00		
F-12	Cement plastering with 1:5 mix , 15mm thick finished semi rough in external reveals (not exceeding 100mm wide) walls in ground floor	m	275.00		
F-13	Cement plastering with 1:5 mix , 15mm thick finished semi rough in external reveals (not exceeding 100mm wide) walls in first floor	m	274.00		
F-14	cement plaster with 1: 5 mix, 15mm thick finished smoothwith skim coat in internal reveals (not exceeding 100mm wide) walls in ground floor	m	403.00		
F-15	cement plaster with 1: 5 mix, 15mm thick finished smoothwith skim coat in internal reveals (not exceeding 100mm wide) walls in first floor	m	377.00		
	C/F				-

ITEM. NO	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
	B/F				-
	<u>Tiling</u> Rounded (tapered) tiles (two sides tapered or single where necessary) shall be used at edge and top or providing plastic tile nosing to top. Grooves shall be straight and of even width. Water absorption of floor tiles should be less than 0.5% and Modulus of rupture to be over 27 N/mm² All samples shall be provided for approval by the Engineer prior to purchase of materials. Ceramic tiles should comply to SLS 1181:2019 specification and shall comply to relevant abrasion resistant class. Rate include for forming arises & for cutting tiles into required sizes & shape at edges & corners. Rates include the cost of tile adhesive (mortar) <u>Floor Tiling</u> Porcelain Homogenous MATT floor tiles 600mm x 600mm in size, with all specials supplying and fixing to floors including raking plaster and bedding in cement mortar 1:3 and pointed with tile grout to match the tiles. (F1)	Note			
		Note			
		Note			
		Note			
F-16	In Ground Floor	m ²	187.00		
F-17	In First Floor	m ²	236.00		
F-18	Supply and laying of 100mm high skirting including tile grout to match the tile of tiling confirming to items F-16	m	157.00		
F-19	Supply and laying of 100mm high skirting including tile grout to match the tile of tiling confirming to items F-17	m	158.00		
	Porcelain Homogenous Anti slip floor tiles 600mm x 600mm in size, with all specials supplying and fixing to floors including raking plaster and bedding in cement mortar 1:3 and pointed with tile grout to match the tiles. (F2)				
F-20	In Ground Floor	m ²	43.00		
F-21	In First Floor	m ²	25.00		
	Porcelain Homogenous floor tiles with textures finish 600mm x 600mm in size, with all specials supplying and fixing to floors including raking plaster and bedding in cement mortar 1:3 and pointed with tile grout to match the tiles. (F3)				
F-22	In Ground Floor	m ²	365.00		
F-23	In First Floor	m ²	120.00		
F-24	In Stairway	m ²	16.00		
F-25	Supply and laying of 100mm high skirting including tile grout to match the tile of tiling confirming to items F-22	m	55.00		
F-26	Supply and laying of 100mm high skirting including tile grout to match the tile of tiling confirming to items F-23	m	58.00		
	C/F				

ITEM. NO	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
	B/F				-
	<u>Wall Tiling</u> Tiles glazed with all specials , supplying and fixing to walls including raking plaster backing in cement mortar 1:3 and pointed with tile grout to match the tiles (Rate include for forming arises & for cutting tiles into required sizes & shape at edges & corners). Supplying and fixing of tile beadings match to the wall tiles at wall tile area. Contractor shall get the approval for quality and colour of the tile beading from the Engineer prior to fixing. Supply and laying homogeneous coloured Glazed ceramic wall tile of size 12"×24" paving on tile adhesive (mortar) layer and pointed with tile grout to match the tile.				
F-26	In ground floor all internal bathrooms, toilets, washrooms walls up to 1800mm height.	m ²	127.00		
F-27	In ground floor worktops top & wall & up to 600mm height.	m ²	10.00		
F-28	In first floor all internal bathrooms, toilets walls up to 1800mm height.	m ²	80.00		
F-29	In first floor worktops top & wall up to 600mm height.	m ²	8.00		
	<u>Ceiling</u> Rate shall include for supplying, erecting and removing of scaffolding where necessary. Rate to include for applying of 2 coats of alkali resisting primer and 2 coats of emulsion paint on ceiling panels.	Note			
F-30	Flat asbestos ceiling with 50x100mm imported timber framework at 1.2m c/c and 50x50mm imported treated timber bearer at 600mm c/c, interior beading 32x12mm and outer molding 32x32mm including prepare and apply one coat of wood preservative to structural timber work and application of one coat of Alkali resistant primer and two coats of emulsion paint to ceiling sheets including necessary nails and screws	m ²	684.00		
	Total for Bill F-Floor,Wall and Ceiling Finishes Carried to Grand Summary			LKR	-

ITEM. NO	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
G	<u>PAINTING</u> Note: All paint materials shall be best quality and shall be prepared products of manufacture's approval by the Engineer in writing. Rate shall include for all preparation of surface clearing down, smoothing, knotting, stopping, patching up cracks etc. Protection of floors & fittings, removing & replacing doors & windows fittings, if required & cleaning upon completion Unevenness & fillings in plastered surfaces shall be filled with gypsum & allowed to set, & sand papered to give a smooth & even surface. Only alkali resistant emulsion paint shall be used on plastered surfaces. All emulsion/enamel/weather sheild paint shall be approved by Engineer & make CIC or equivalent & rate shall include application of filler coat. Rate shall include for cost for scaffoldings, Painting for reveals, etc.				
G-1	Prepare and apply one coat of alkali resistant primer and two coats of emulsion-interior paint to internal walls - up to first floor level	m ²	718.00		
G-2	Prepare and apply one coat of Alkali resistant primer and two coats of emulsion-interior paint soffit of slabs - up to first floor level	m ²	349.00		
G-3	Prepare and apply one coat of Acrylic wall filler and two coats of emulsion-exterior, white and colour paint - up to first floor level	m ²	338.00		
G-4	Prepare and apply one coat of Acrylic wall filler and two coats of bathroom paint, white and colour paint - up to first floor level	m ²	95.00		
G-5	Prepare and apply one coat of alkali resistant primer and two coats of emulsion-interior paint to internal walls - up to roof level	m ²	590.00		
G-6	Prepare and apply one coat of Alkali resistant primer and two coats of emulsion-interior paint soffit of slabs - up to roof level	m ²	48.00		
G-7	Prepare and apply one coat of Acrylic wall filler and two coats of emulsion-exterior, white and colour paint - up to roof level	m ²	343.00		
G-8	Prepare and apply one coat of Acrylic wall filler and two coats of bathroom paint, white and colour paint - up to roof level	m ²	68.00		
	Total for Bill G- Painting carried to Grand Summary			LKR	-

ITEM. NO	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
H	<u>DOOR AND WINDOW WORKS</u> <u>Note:-</u> <u>Work Included</u> Supply, fabrication, delivery and fixing installation of Aluminium doors and windows complete with frames, sashes, sub frames, hardware, glazing, sealant, gaskets,trimming and weather proofing in accordance with drawing and technical specifications. <u>Standards and codes</u> Material and installation shall comply with Sri Lanka Standards (SLS) where applicable (e.g SLS 1410/1411) and recognized International Standards for aluminium sections and façade performances. <u>Aluminium Sections</u> Aluminium Alloy : -AA6063-T5 (minimum)or equivalent Minimum Section thickness Window Frame and Sashes :- 1.5mm – 2mm (or as per design) Door Frame :- 1.6mm- 2.0mm (min) Accepted commercial tolerance +/- 0.15mm shall apply Doors – Frame section shall not be less than 50mm in depth and sash members shall not be less than 30 mm in depth Windows – Frame section shall not be less than 50mm in depth and sash members shall not be less than 20 mm in depth Partitions – Frame section shall not be less than 50mm in depth <u>Finish</u> Powder coating or anodized :- 60-80 Microns (approx.), 15-25 Microns (approx.) Colour and finish :- As per architect's schedule or Engineer's approved sample Hardware and fixings :- Stainless steel (SS304) or corrosion resistant <u>Installation and fixing requirements</u> Preparation :- site measurements to be taken and verified prior to fabrication Shop drawing , fixed connection detail and profiles to be approved by the engineer /Architect prior to fabrication and installation <u>Fixing of Frames</u> Outer frame sash members shall be properly machined to permit easy assembly and t form weather tight joint when caulked. Door panels shall be properly weather stripped and designed for virgin vinyl channel type glazing. This shall include for members of head bottom sill and side jambs ,stainless steel butt hinges or floor springs, sash locks , SS flush bolts where necessary. (for two sash doors etc)				

ITEM. NO	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
	<u>Glazing</u> Glazing to be installed with approved Aluminium beads, gaskets and Sealant toughened or IGU glass to be fitted without stress and with adequate edge support. Payment Payment shall be made on the basis of exact external measurement of the finished item of work as identified in the bill of quantity. Doors Supply and fix Natural Powder Coated Natural aluminium double sash butt hinged openable door with middle rail and louvers on top, with 5mm thick clear glass panes at top and 4mm thick aluminium composite panel at bottom, neoprene and wooleed 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 DrawingNo:- Bu/N/ANP/Drg/ 23342 I (D) Supply and fix Natural Powder Coated Natural aluminium single sash butt hinged openable door with middle rail and glazed with 5mm thick clear glass panes at top and 4mm thick aluminium composite panel at bottom, neoprene and wooleed 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 DrawingNo:- Bu/N/ANP/Drg/ 23342 I (D1) Supply and fix Natural aluminium single sash butt hinged openable door with middle rail and louvers on top, panelling with Polyester coated aluminium composite panel of 0.1mm thick aluminium sheets both sides of total thickness 4mm, at bottom panel, neoprene and wooleed beading, gaskets, pop rivots, threaded bar with nut and approved qualitylock, butt hinges, door handle with cap nut. As per the members, sizes and details given in DrawingNo:- Bu/N/ANP/Drg/ 23342 I (D2) Supply and fix Natural Powder Coated aluminium single sash butt hinged openable door with cement fiber board panel of total thickness 6mm, with both sides , neoprene and wooleed 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 DrawingNo:- Bu/N/ANP/Drg/ 23342 I (D3) Supply and fix Natural Powder Coated aluminium single sash butt hinged openable door with 3mm thick PVC coated plywood board of total thickness 6mm, with both sides , neoprene and wooleed 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 DrawingNo:- Bu/N/ANP/Drg/ 23342 I (D4) Supply and fix Natural Powder Coated aluminium double sash butt hinged openable door with middle rail and louvers on top, panelling with cement fiber board panel of total thickness 6mm, with both sides , neoprene and wooleed 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 DrawingNo:- Bu/N/ANP/Drg/ 23342 I (D5) Fabricating and fixing Ledge, braced & battened door door with necessary brass furnitures, painting & lock.				
H-1		m ²	9.00		
H-2		m ²	41.00		
H-3		m ²	11.00		
H-4		m ²	20.00		
H-5		m ²	20.00		
H-6		m ²	3.00		
H-7		m ²	1.00		
	C/F				

ITEM. NO	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
	B/F				
	Windows				
H-8	Supply and fix Natural Powder Coated Aluminium sliding window (3 bay) 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:- Bu/N/ANP/Drg/ 23342 I (W1)	m ²	127.00		
H-9	Supply and fix Natural Powder Coated Aluminium sliding window (2 Bay) 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:- Bu/N/ANP/Drg/ 23342 I (W2)	m ²	4.00		
H-10	Supply and fix Natural Powder Coated 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:- Bu/N/ANP/Drg/ 23342 I (F)	m ²	16.00		
H-11	Supply and fix Natural Powder Coated Aluminium fixed glazed window with 5mm thick clear glass and screws, pop rivots, gasket and wool felt etc. and details given in DrawingNo: Bu/N/ANP/Drg/ 23342 I (FG)	m ²	1.00		
	Total for Bill H- Door and Window Works carried to Grand Summary			LKR	-

ITEM. NO	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
I	<u>ROOF COVERING/ ROOF PLUMBING</u>				
I-1	Zink Alum. Sheet- corrugated type -colour- (Thickness 0.47 mm, coating Mass (g/m2) AZ 150, base metal thickness 0.42mm , tensile strength G550(550Mpa or 550N/mm2) (Lysaght, Metecno or approved equivalent) roof on existing framework including necessary fasteners as per manufacturer's specifications, as per Engineer's approvals	m ²	790.00		
I-2	Furnishing and fixing 100 x 50mm x 15mm (Base metal Thickness- 2.4mm) galvanized steel lipped chanel as per Manufacturer's Specifications. Rate shall be included preparing and necessary nut and bolt 6mm thick cleat, welding and two coats of anticorrosive paint	m	890.00		
I-3	Supply and fixing Zn-Al ridging (Colour-600mm width) - 0.47 mm thick, as per manufacturer's specifications, (Lysaght, metecorn or approved equivalent) with necessary bolts and nuts, (with cut wave)as per engineer's approvals	m	77.00		
I-4	Supply & fixing Zn-Al valance board / bardge board(Colour) (225mm) thickness 0.47mm with necessary bolt and nuts	m	167.00		
I-5	Supplying fabricating and fixing in position Zn/Al shading fixed with 50mm x 50mm x 6 mm angle iron frame 900mm intervals with necessary nuts & bolts. Rate shall include two coats of epoxy zinc phosphate paint (different colours to be applied) and necessary scaffolding etc.	m ²	20.00		
I-6	12mm thick heat and sound installation sheet (double side luminary aluminium foil) laying on 75mm x 75mm GI mesh under roof covering.	m ²	790.00		
	Gutters & Down Pipes				
I-7	Supply and fix Zn-Al eave gutter (colour),as per manufacturer's specifications, (Metecno or approved equivalent)- girth 450-500mm, 0.47 mm thick with necessary bolts and nuts as per Engineer's approvals	m	134.00		
I-8	Supply and fix Zn-Al down pipes (colour) as per manufacturer's specifications, (Metecno or approved equivalent)- size 100x100mm, 0.47 mm thick to wall with necessary bracket clip, as per Engineer's approvals.	m	140.00		
I-9	Supply and fixing Zn-Al valley gutter (Colour), as per manufacturer's specifications, girth 600-900mm (Metecno or approved equivalent) - (0.47mm thick), on existing / timber steel members, as per engineer's approvals	m	16.00		
	Total for Bill I- Roof Covering/Roof plumbing Works carried to Grand Summ			LKR	-

ITEM. NO	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
J	<u>ROOF TRUSS</u>				
J-1	Supplying , Fabricating , transporting and erecting steel roof Truss type T1 comprising 200x100x18 Kg/m Steel I section for main truss.150 x 75x 14Kg/m Steel I section Support to the concrete beam and connection of joints using steel gusset plates,bolts and welding as per the detailed drawing (Detail A, Deatil D) including lifting and fixing in position,alignment and applying one coat of anti-corrosive primer and two coat of approved enamel paint and complete the work as per the drawing and instructions given by the engineer.	Nos	13.00		
J-2	Supplying ,Fabricating , transporting , and erecting steel roof truss type T2 comprising 200x100x18 Kg/m Steel I section for main truss.150 x 75x 14Kg/m Steel I section Support to the concrete beam and connection of joints using steel gusset plates,bolts and welding as per the detailed drawing (Detail A, Deatil B) including lifting and fixing in position,alignment and applying one coat of anti-corrosive primer and two coat of approved enamel paint and complete the work as per the drawing and instructions given by the engineer.	Nos	2.00		
J-3	Supplying ,Fabricatig ,transporting and erecting steel roof truss type T3 comprising 200x100x18 Kg/m Steel I section for main truss.150 x 75x 14Kg/m Steel I section Support to the concrete beam and connection of joints using steel gusset plates,bolts and welding as per the detailed drawing (Detail A, Deatil B) including lifting and fixing in position,alignment and applying one coat of anti-corrosive primer and two coat of approved enamel paint and complete the work as per the drawing and instructions of engineers.	Nos	2.00		
J-4	Supplying ,Fabricating ,transport, and erect steel roof truss type T4 comprising 200x100x18 Kg/m Steel I section for main truss.150 x 75x 14Kg/m Steel I section Support to the concrete beam and connection of joints using steel gusset plates,bolts and welding as per the detailed drawing (Detail A) including lifting and fixing in position,alignment and applying one coat of anti-corrosive primer and two coat of approved enamel paint and complete the work as per the drawing and instructions of engineers.	Nos	2.00		
J-5	Supplying ,Fabricating ,transporting , and erecting steel roof truss type T5 comprising 200x100x18 Kg/m Steel I section for main truss.150 x 75x 14Kg/m Steel I section Support to the concrete beam and connection of joints using steel gusset plates,bolts and welding as per the detailed drawing (Detail A, Deatil B) including lifting and fixing in position,alignment and applying one coat of anti-corrosive primer and two coat of approved enamel paint and complete the work as per the drawing and instructions given by the engineer.	Nos	1.00		
J-6	Supplying ,Fabricating ,transporting , and erecting steel roof truss type T6 comprising 200x100x18 Kg/m Steel I section for main truss.150 x 75x 14Kg/m Steel I section Support to the concrete beam and connection of joints using steel gusset plates,bolts and welding as per the detailed drawing (Detail A, Deatil B) including lifting and fixing in position,alignment and applying one coat of anti-corrosive primer and two coat of approved enamel paint and complete the work as per the drawing and instructions given by the engineer.	Nos	1.00		
	Total for Bill J- Roof Truss carried to Grand Summary			LKR	-

ITEM. NO	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
K	<u>PLUMBING WORK</u> Notes: All fittings and pipe specials used in the plumbing installation shall be suitable and compatible with all respects to the pipe line to which fittings and specials are fixed. All sanitary fittings supplied shall be provided with a minimum 25 years warranty , issued jointly and severally by the local supplier and the manufacturer. All taps & accessories shall be chromium plated manufactured in Europe or Japan or approved equivalent and shall have a minimum 5 years warranty. Unless otherwise measured separately , rate for plumbing work shall include for: (a) Complying with the relevant Sri Lankan, British or any other standard as given under the specifications and with the regulations of the Local authority and or any other relevant authorities. (d) Connecting pipes to sanitary fixtures and appliances. (e) Necessary screws ,nails sockets , connections back nuts standard pipe fixing or supporting clips, saddles, brackets, holder bats.straps etc. (f) Connecting of different types of pipes. (g) Supply installation , testing and disinfection after completion. (h) Excavation , backfilling , disposal of surplus soil for items which were specifically mentioned. <u>Water Supply</u> Supply and installation of new water meter at city connection and connecting it to overhead tanks including other necessary pipes & fittings as directed at the site.				
K-1	Supply and installation of new water meter at city connection and connecting it to overhead tanks including other necessary pipes & fittings as directed at the site.		Provisional Sum		150,000.00
K-2	Supply and lay PVC Pipe 20mm - type 1000 including all necessary fittings	m	117.00		
K-3	Supply and lay PVC Pipe 40mm - type 1000 including all necessary fittings	m	254.00		
	<u>Valves in Distribution System</u>				
K-4	Supply and fix Ball valve (Brass) - for overhead tanks - 25mm heavy quality - all complete	Nos.	4.00		
K-5	Supply and fix Stop cock/Gate valve PVC, Water Tec or approved equivalent, with SLS standards - 40mm dia.	Nos.	12.00		
K-6	Supply and fix Stop cock/Gate valve PVC, Water Tec or approved equivalent, with SLS standards - 20mm dia.	Nos.	14.00		
	Rates for sanitary fittings shall include for: (a) Fittings such as taps, waste water outlet , internal overflows etc.. And supporting brackets , incidental materials for fixing , unless otherwise measured separately. (b) Assembling , jointing together fixing components parts, and jointing to pipes including necessary coupling and for leaving perfectly clean and in perfect working order on completion. (c) Jointing and connecting of pipes to sanitary fittings. (d) Supply , installation, testing and commissioning of the entire installation work. (e) Making good of the work disturbed. (f) Submitting samples for the approval by the Engineer. (g) Protecting the works.				
	C/F				

ITEM. NO	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
	B/F				-
K-7	Supply and fix closet, closed couple, Rocell-Urban D or approved equivalent, with 25 years guarantee complete with hard seat cover and all necessary fittings.(Guarantee certificate should be submitted with the bill) . Rate shall be included connecting to existing water services and making good. Angle valve and flexible hose paid separately	Nos.	10.00		
K-8	Supply and fix Urinal bawl type (with out flush valve), Rocell or approved equivalent, with guarantee. Rate shall be included connecting to existing water services and making good	Nos.	3.00		
K-9	supply and fixing approved closet squatting type (medium) with foot rest type with trap. Rate shall be included working order and connection to sever line	Nos.	1.00		
K-10	Wash basin, ceramic, with pedestal (Rocell-Urban D or approved equivalent) with 25 years guarantee complete with mono type, chromium plated basin tap - (Momali, Huai or approved equivalent) - with 5 years guarantee including all necessary fittings (Guarantee certificates should be submitted with the bill). Rate shall be included connecting to existing water services and making good	Nos.	8.00		
K-11	Supply and fix corner wash basin, Rocell or approved equivalent, complete with mono type, chromium plated basin tap - (Momali, Huai or approved equivalent) - with 5 years guarantee. Rate shall be including wash plug with chain & stay with all necessary fittings and connected to existing water services and making good. (Guarantee certificates should be submitted with the bill)	Nos.	7.00		
K-12	Supply and fix stainless steel kitchen Sink, PRINCE or approved equivalent with single bawl, without drain board including chromium plated long neck type sink tap - Momali, Huai or approved equivalent - with 5 years guarantee complete with all necessary fittings (overall size 450x375mm) - (Guarantee certificate should be submitted with the bill) . Rate shall be included connecting to existing water services and making good	Nos.	2.00		
K-13	Supply and fixing under counter wash basin and single tap hole in centre of Rocell barand or approved equillant complete to working order inclusive of the 1 1/4" cromium plated waste outlet of rocell brand or approved equillant prime cost for under counter wash basin is Rs.17,653.00	Nos.	7.00		
K-14	Supply and fix chromium plated bidet spray - (Momali, Huai or approved equivalent) - with 1 years guarantee. Rate shall be included 450mm long chromium plated flexible cable, all necessities and connected to existing water services and making good. (Guarantee certificate should be submitted with the bill)	Nos.	11.00		
K-15	Supply and fix mirror, bathroom type 700x500mm (Benyue or approved equivalent) with shelves	Nos.	9.00		
K-16	Supply and fix head shower, square shape, chromium plated heavy, Momali or approved equivalent with 5 years guarantee. Rate shall be included connecting to existing water services and making good	Nos.	5.00		
K-17	Supply and fix bath room accessories set (chromium plated approved quality) - 5 pcs. (mirror shelf, towel bar,tooth brush holder,toilet paper holder and soap holder) , Kally or approved equivalent all complete. Rate shall be included all necessities and making good	Nos.	5.00		
	C/F				-

ITEM. NO	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
	B/F				-
K-18	Supply and fix bib tap 20mm dia., Momali, Desigle or approved equivalent, with 5 years guarantee (Guarantee certificate should be submitted with the bill)	Nos.	5.00		
K-19	Supply and fix 20mm dia. plastic Bib tap, Water Tec or approved equivalent, all complete	Nos.	5.00		
K-20	Supply and fix Chromium plated flexible cable (450mm long - 1 1/2'), Momali, Desigle or approved equivalent	Nos.	20.00		
K-21	Supply and fix folding bar with paper holder, Rocell or approved equivalent	Nos.	1.00		
K-22	Supply and fix straight grab bar, Rocell or approved equivalent	Nos.	2.00		
K-23	Supply and fix Angle valve, Momali, Desigle or approved equivalent, with 5 years guarantee (Guarantee certificate should be submitted with the bill)	Nos.	10.00		
K-24	Plastic shell water tank, PE+ or approved equivalent, with 10 years guarantee of capacity 1000 ltr. Including transporting, placing, lifting in position and fixing to the accepted engineering standards including all necessary. Rate shall be included connecting to existing water services and making good Rates for drainage work shall include for: (a) Laying of pipes to falls. (b) Excavation, backfilling, disposal of surplus soil (c) All pipes specials such as bends , junctions elbows , tees etc. (d) Connection to sides of manholes etc.. (e) Providing sleeves etc , when pipes pass through walls, foundations etc.. Testing & installation as specified. Protecting the work. <u>Sewage & Waste water Disposal Arrangement</u>	Nos.	4.00		
K-24	Supply and lay 110mm drainage pipe PVC (Gauge 600)-special for drainage - with necessary fittings complete	m	27.00		
K-25	Supply and lay 63mm drainage pipe PVC (Gauge 600)-special for drainage - with necessary fittings complete	m	64.00		
K-26	Supplying and fixing 110mm dia.Vent Cowl (Wire Dome)	Nos.	4.00		
K-27	Supplying and fixing 63mm dia.Vent Cowl (Wire Dome)	Nos.	5.00		
K-28	Furnishing and fixing of Multi-floor trap including 150mm plastic grating	Nos.	14.00		
K-29	Construction of RCC Grade 20 Septic tank on hard soil , internal surface of septic tank to be rendered in cement mortar in one layer 20mm thick cement sand rendering in 1:2 mix trowel smooth with neat grey cement , each two coats of water proofing agent to be applied on the concrete wall including 75mm thick Grade 20 RCC cover slab with lifting hooks reinforced with 10mm dia.tor steel bars @ 200mm c/c both ways, including necessary excavation all complete as per Drawing No:- Bu/N/ANP/Drg/23342/P	Nos.	1.00		
K-30	Construction of soakage pit in hard soil including 75mm thick Grade 20 RCC cover slab with lifting hooks (Reinforced with 10mm dia. Tor steel bars @ 150mm c/c both ways), including necessary excavation, all complete as per Drawing No:-Bu/N/ANP/Drg/23342/Q	Nos.	1.00		
	C/F				-

ITEM. NO	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
	B/F				-
	Waste water manhole				
K-31	Construction of RCC waste water manhole internal size of 600 x 600mm & depth up to 600mm, consist of 50mm thick Grade 15 screed concrete & 150mm thick base and side walls Grade 25 concrete r/f with 10mm dia. tor steel @ 150 c/c bothways ,12mm thick cement sand rendering in 1:3 mix. Trowel smooth with neat grey cement to all internal surfaces and external exposed surfaces.Rate include for Excavation & necessary formworks and 100mm thick Grade 25 RCC cover slab with lifting hooks (Reinforced with 10mm dia. M.S. rods @ 150 c/c bothways). (Refer relevant drawings)	Nos.	2.00		
K-32	Construction of RCC sewer manhole internal size of 750 x 750mm & depth 600mm to 900mm, consist of 50mm thick Grade 15 screed concrete & 150mm thick base and side walls Grade 25 concrete r/f with 10mm dia. tor steel @ 150 c/c bothways ,12mm thick cement sand rendering in 1:3 mix. Trowel smooth with neat grey cement to all internal surfaces and external exposed surfaces. Rate include for Excavation & necessary formworks and 100mm thick Grade 25 RCC cover slab with lifting hooks (Reinforced with 10mm dia. M.S. rods @ 150 c/c bothways). (Refer relevant drawings)	Nos.	1.00		
K-33	Construction of RCC sewer manhole internal size of 900 x 900mm & depth 900mm to 1800mm, consist of 50mm thick Grade 15 screed concrete & 150mm thick base and side walls Grade 25 concrete r/f with 10mm dia. tor steel @ 150 c/c bothways ,12mm thick cement sand rendering in 1:3 mix. Trowel smooth with neat grey cement to all internal surfaces and external exposed surfaces and channel with 1:6 benching grade 20concrete.Rate include for Excavation & necessary formworks and 100mm thick Grade 25 RCC cover slab with lifting hooks (Reinforced with 10mm dia. M.S. rods @ 150 c/c bothways). (Refer relevant drawings)	Nos.	2.00		
	Sewer Manhole				
K-34	Construction of RCC sewer manhole internal size of 600 x 600mm & depth up to 600mm, consist of 50mm thick Grade 15 screed concrete & 150mm thick base and side walls Grade 25 concrete r/f with 10mm dia. tor steel @ 150 c/c bothways ,12mm thick cement sand rendering in 1:3 mix. Trowel smooth with neat grey cement to all internal surfaces and external exposed surfaces. Rate include for Excavation & necessary formworks and 100mm thick Grade 25 RCC cover slab with lifting hooks (Reinforced with 10mm dia. M.S. rods @ 150 c/c bothways). (Refer relevant drawings)	Nos.	4.00		
K-35	Construction of RCC sewer manhole internal size of 750 x 750mm & depth 600mm to 900mm, consist of 50mm thick Grade 15 screed concrete & 150mm thick base and side walls Grade 25 concrete r/f with 10mm dia. tor steel @ 150 c/c bothways ,12mm thick cement sand rendering in 1:3 mix. Trowel smooth with neat grey cement to all internal surfaces and external exposed surfaces and channel with 1:6 benching grade 20concrete.Rate include for Excavation & necessary formworks and 100mm thick Grade 25 RCC cover slab with lifting hooks (Reinforced with 10mm dia. M.S. rods @ 150 c/c bothways). (Refer relevant drawings)	Nos.	1.00		
	C/F				-

ITEM. NO	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
	B/F				-
K-36	Construction of RCC sewer manhole internal size of 900 x 900mm & depth 900mm to 1800mm, consist of 50mm thick Grade 15 screed concrete & 150mm thick base and side walls Grade 25 concrete r/f with 10mm dia. tor steel @ 150 c/c bothways ,12mm thick cement sand rendering in 1:3 mix. Trowel smooth with neat grey cement to all internal surfaces and external exposed surfaces and channel with 1:6 benching grade 20concrete.Rate include for Excavation & necessary formworks and 100mm thick Grade 25 RCC cover slab with lifting hooks (Reinforced with 10mm dia. M.S.rods @ 150 c/c bothways). (Refer relevant drawings)	Nos.	1.00		
K-37	Urinal Catch Pit Construction of Urinal Catch Pit internal size of 600 x 600mm & depth up to 600mm, consist of 50mm thick Grade 15 screed concrete & 150mm thick base and side walls Grade 25 concrete r/f with 10mm dia. tor steel @ 150 c/c bothways ,12mm thick cement sand rendering in 1:3 mix. Trowel smooth with neat grey cement to all internal surfaces and external exposed surfaces. Rate include for Excavation & necessary formworks and 100mm thick Grade 25 RCC cover slab with lifting hooks (Reinforced with 10mm dia. M.S.rods @ 150 c/c bothways).	Nos.	1.00		
K-38	Trap Gulley Pit Gulley pit with internal dimension 300x300x size and upto300mm deep, 150mm thick 1:3:6(40mm) concrete foundation, 225mm thick brick work in 1:5 ct. sand, 12mm thick cement sand rendering in 1:2 with forming canals and 75mm thick R.C.C. slab	Nos.	6.00		
K-39	<u>EXTERNAL WASTEWATER DISPOSAL</u> Supply and laying of type 600, uPVC pipes through ground soil from soil stack to manholes, from manholes to manholes and from manholes to final disposal system. Rate to include for pipe connection, excavation for pipe trenches and backfilling with sand bedding. 63mm dia. uPVC pipes	m	251.00		
K-40	<u>EXTERNAL SEWAGE DISPOSAL</u> <u>Pipes laid underground</u> Supply and laying of type 600, uPVC pipes through ground soil from soil stack to manholes, from manholes to manholes and from manholes to final disposal system. Rate to include for pipe connection, excavation for pipe trenches and backfilling with sand bedding. 110mm dia. uPVC pipes	m	181.00		
K-41	<u>Rain water Disposal Arrangement</u> Supply and lay 110mm drainage pipe PVC (Gauge 600)- special for drainage - with necessary fittings complete	m	206.00		
K-42	Construction of Rainwater Harvesting pit with internal dia. 1200mm and depth 1500mm, all complete including excavation, ring beam with 4 Nos. 10 mm bars & 6 mm dia. stirrups at 225mm spacing at bottom of wall, 225mm brick work and 75mm thick cover slab with 12mm bars in 150mm c/c both way	Nos	1.00		
	C/F				-

ITEM. NO	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
	B/F				-
K-43	Construction of RCC rainwater manhole internal size of 300 x 300mm & depth up to 600mm, consist of 100mm thick base and side walls Grade 25 concrete r/f with 10mm dia. tor steel @ 200 c/c bothways ,12mm thick cement sand internal plastering in 1:3 mix. Trowel smooth with neat grey cement to all internal surfaces and external exposed surfaces. Rate include for Excavation , necessary formworks GI grating with 25mm x 6mm Flat GI welded at 40mm centers to 25 x 25 x 5 mm GI angle iron frame including application of anti-corrosive paint . (Refer relevant drawings)	Nos	18.00		
	Total for Bill K- Plumbing Works carried to Grand Summary			LKR	-

ITEM. NO	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
L	<u>ELECTRICAL INSTALLATION WORKS</u> Rate in Bill of Quantities shall include all necessary materials (Cables, conduits , PVC sunk box , bulbs, switches etc.) and labour required to complete the electrical installation to good working order. Except where specially stated, all cost associated with provision of all holes, openings, chases, ducts & other builders' work required for installation & make them good, shall be included in the rates. Where reference is make to certain manufactures' products & items identified by registered trade marks, has been done for the sole purpose of defining & establishing standards of quality & performance & not with the intention of restricting the procurement of material or fitting to a particular manufacturer. However all equipment & material should meet the BS or other equivalent standards. Testing & commisioning of the electrical installation is to be carried out by the contractor & inspection report submmited accordig to the requirements of the power supply Authority. Electrical items (MCB, RCCB etc.) should be of European/ Japanese origin or to the BS or equivalent & items without & accredited agent in Sri Lanka shall not be accepted. Guarantee cards (Fans etc.) should be provided from accredited agent before installation. All the quanitites given here are approximated values & quantities may change with the actual installation at the site. All types of fittings, materials, painting & finishes shall be approved by the Engineer prior to installation. All panel boards & consumer units should have wire numbering & a laminated circuit diagram should be pasted on the inside surface of the door. Electrical Connection				
L-1	Allow for electricity new connection		Provisional Sum		150,000.00
	Earth Electrode				
L-2	Supply and install Earth electrode (Cu Rod-1500mm length and 12mm dia.) fixed on ground with 7/1.35mm green wire connection	Nos.	1.00		
	Service Bracket				
L-3	Supply and install 65 x 65 x 6 mm angle iron service bracket, D bracket and Insulator with necessary nuts and bolts for main wire fixed to wall or roof frame - Single Phase	Nos.	1.00		
	Distribution Box				
L-4	Supply install 40A Distribution Box 10 way, 40A 2 pole MCB, 40A 2-pole 30mA RCCB,1 pole MCB x 6 with wall mount polychrome box - Single Phase(all the MCB/ RCCB/ Isolator should be Moller/ Schneider / ABB or approved equivalent)	Nos.	2.00		
	Ground floor				
	<u>Socket Outlet</u>				
L-5	Supply and install 13A double Socket outlets including necessary wiring 2.5 Sqmm CU/PVC/PVC cable + 2.5 Sqmm Cu/PVC earth cable(Ring circuit)	Nos.	71.00		
L-6	Supply and install 15A Socket outlets including necessary wiring 2.5 Sqmm CU/PVC/PVC cable + 2.5 Sqmm Cu/PVC earth cable(Ring circuit)	Nos.	3.00		
	C/F				

ITEM. NO	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
	B/F				-
	Fittings & installation				
L-7	Supply and install Ceiling fan 56" (Type 01),(230V, 75W) KDK-N56RG /M56RG(with Elite Radio warranty) ,Panasonic (with Softlogic warranty) with regulator and other fittings & including necessary wiring with 1 Sqmm Cu/PVC/PVC + 2.5 Sqmm E Cu/PVC cable with SLS certificates & 2 Years warranty certificate.	Nos	12.00		
L-8	Supply & install Slab mount LED Panel light 18W (Green/Orange or equivalent) including switch & necessary wiring with 1.0 Sqmm Cu/PVC/PVC cable (One year warranty)	Nos	73.00		
L-9	Supply and install two way operated Slab mount LED Panel light - including one gang two way switch and necessary wiring with 1.0 Sqmm Cu/PVC/PVC cable (without bulb)	Nos	2.00		
L-10	Supply and install Wall lamp single glass globe with LED bulb - 20W including switch and necessary wiring with 1.0 Sqmm Cu/PVC/PVC cable(One year warranty)	Nos.	39.00		
L-11	Supply and install two way operated Wall lamp single glass globe - including one gang two way switch and necessary wiring with 1.0 Sqmm Cu/PVC/PVC cable (without bulb)	Nos.	5.00		
	First floor				
	Socket Outlet				
L-12	Supply and install 13A double Socket outlets including necessary wiring 2.5 Sqmm CU/PVC/PVC cable + 2.5 Sqmm Cu/PVC earth cable(Ring circuit)	Nos.	78.00		
L-13	Supply and install 15A Socket outlets including necessary wiring 2.5 Sqmm CU/PVC/PVC cable + 2.5 Sqmm Cu/PVC earth cable(Ring circuit)	Nos.	2.00		
	Fittings & installation				
L-14	Supply and install Ceiling fan 56" (Type 01),(230V, 75W) KDK-N56RG /M56RG(with Elite Radio warranty) ,Panasonic (with Softlogic warranty) with regulator and other fittings & including necessary wiring with 1 Sqmm Cu/PVC/PVC + 2.5 Sqmm E Cu/PVC cable with SLS certificates & 2 Years warranty certificate.	Nos	18.00		
L-15	Supply and install Ceiling lamp barral type, dia.150mm - including LED 12W bulb including switch & necessary wiring with 1.0 Sqmm Cu/PVC/PVC cable (One year warranty)	Nos	60.00		
L-16	Supply and install two way operated Ceiling lamp - including one gang two way switch and necessary wiring with 1.0 Sqmm Cu/PVC/PVC cable (without bulb)	Nos	2.00		
L-17	Supply and install Pendant lamp with LED bulb - 18W including switch and necessary wiring with 1.0 Sqmm Cu/PVC/PVC cable	Nos	18.00		
L-18	Supply & install Slab mount LED Panel light 18W (Green/Orange or equivalent) including switch & necessary wiring with 1.0 Sqmm Cu/PVC/PVC cable (One year warranty)	Nos	6.00		
L-19	Supply and install Wall lamp single glass globe with LED bulb - 20W including switch and necessary wiring with 1.0 Sqmm Cu/PVC/PVC cable(One year warranty)	Nos.	18.00		
	C/F				-

ITEM. NO	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
	B/F				-
	<u>Second floor</u>				
L-20	Supply and install 13A double Socket outlets including necessary wiring 2.5 Sqmm CU/PVC/PVC cable + 2.5 Sqmm Cu/PVC earth cable(Ring circuit)	Nos.	9.00		
L-21	Supply and install 15A Socket outlets including necessary wiring 2.5 Sqmm CU/PVC/PVC cable + 2.5 Sqmm Cu/PVC earth cable(Ring circuit)	Nos.	3.00		
	Fittings & installation				
L-22	Supply and install Pendant lamp with LED bulb - 18W including switch and necessary wiring with 1.0 Sqmm Cu/PVC/PVC cable	Nos	9.00		
	Total for Bill L- Electrical Works carried to Grand Summary			LKR	-

ITEM. NO	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
M	<u>MISCELLANEOUS WORKS</u>				
M-1	Supplying & fixing 1000 mm high handrail, with main vertical members of 50x50(2)mm size steel box bars at 1500 mm C/C welded 100 x 100mm, 6mm thick steel plate at the bottom of the members and bottom plate to be embedded in concrete or necessary surface with 75mm long 8mm anchor bolts with nut. Horizontal members at top and bottom to be 50x25(2)mm welded to vertical members 12x12(1.6)mm size secondary vertical steel box bar members at 100mm C/C welded to top and bottom of horizontal members parallel to hand rail. Rate shall be included one coat of zinc phosphate metal primer and 2 coats of anticorrosive paint. (Balcony)	m	77.00		
M-2	Supplying, fabricating & fixing G.I box bar stairsase handrail (Height 900mm) consist of 50 x 50 x1.6mm thick G.I box bar upright @ 1200mm c/c as vertical members fixed bottom end to steps with the 100 x 100 x 12mm thick M.S. plate connecting with 4nos of 10mm dia. anchor bolts and both end weld to 50 x 50 x1.6mm thick G.I box bar, 20 x 20 x1.6mm thick G.I box bar @ 150mm c/c as vertical members both ends weld to 40 x 40 x 1.6mm thick G.I box bar finished smooth and work complete in order. Rate Shall include for applying one coat of etch primer (50% of etch primer base and 50% etch primer activator), one coat of anti-corrosive primer with two coats of enamel paint.	m	13.00		
M-3	Platform roofcover				
M-3-1	Excavation in trenches for column pits, foundations in ordinary soil up to a depth 1.5m and depositing excavated material to a distance within the site as directed.	m ³	26.00		
M-3-2	50mm thick cement concrete 1:3:6(40mm) screed in foundation & column base including placing in position and curing using Concrete Mixer.	m ³	1.00		
M-3-3	Filling in column pits with gravel or other approved quality material (not available at site) supplying, filling, spreading, leveling, watering and compaction as per engineer's instruction. Quantity is measured on compacted volume.	m ³	25.00		
M-3-4	G25 Concrete in columns	m ³	6.00		
M-3-5	Formwork in column shaft	m ²	21.00		
M-3-6	Tor steel bars in column footings	Kg	269.00		
M-3-7	6mm dia. Mild Steel stirups in columns	Kg	104.00		
M-3-8	Supplying, Fabricating and fixing of 125mm dia., heavy duty G.I. Pipe uprights using 12mm thick 200mm x 200mm M.S plate 25mm dia 300mm long rag bolts 4 nos and necessary screws. The top end of the upright welded to 25mm dia. G.I pipe.	Nos	16.00		
M-3-9	Zink Alum. Sheet- corrugated type -colour- (Thickness 0.47 mm, coating Mass (g/m ²) AZ 150, base metal thickness 0.42mm, tensile strength G550(550Mpa or 550N/mm ²) (Lysaght, Metecno or approved equivalent) roof on existing framework including necessary fasteners as per manufacturer's specifications, as per Engineer's approvals	m ²	305.00		
M-3-10	Supply & fixing Zn-Al valance board / bardge board (Colour) (900mm) thickness 0.47mm with necessary bolt and nuts	m	73.00		
M-3-11	Supply and fix Zn-Al eave gutter (colour), as per manufacturer's specifications, (Metecno or approved equivalent)- girth 450-500mm, 0.47 mm thick with necessary bolts and nuts as per Engineer's approvals	m	73.00		
	C/F				-

ITEM. NO	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
	B/F				-
M-3-12	Supply and fix Zn-Al down pipes (colour) as per manufacturer's specifications, (Metecno or approved equivalent)- size 100x100mm, 0.47 mm thick to wall with necessary bracket clip, as per Engineer's approvals.	m	5.00		
M-4	Fabricating, Supplying and installing a Steel Circular Staircase of 3.275m total height 1.4m diameter. Central column: 150mm heavy-duty G.I. Circular hollow section pipe. Tread: 6mm thk. Chequered steel plates fixed onto MS frame supports, welded to the central Column. Handrails & Balustrades : 50mm dia. G.I top rail with 25mm dia. vertical balusters at 100mm centers. Fixing: Base plate bolted to the first floor slab using M16 anchor bolts and top landing secured to the second floor slab. Finish: All steel surfaces to be cleaned, applied with one coat of anti-corrosive primer and two coats of approved quality enamel paint or powder coated finish.	Nos	1.00		
M-5	Construction of 100mm thick G20 reinforced concrete ramp laid to a slope of 1:15, reinforced with T10 bars at 200mm centers both ways and including 150 × 150mm landing beam with 4 nos. T10 bars & R6 @ 200 C/C, complete with formwork, placing, compacting, finishing, curing, and all necessary works as per drawing and specifications.	Nos	2.00		
M-6	Supply and fix Natural Powder Coated Aluminium Ticket Counter, glazed with 5mm thick clear glass and screws, pop rivots, gasket and wool felt etc. and fabricating & installing timber counter top (width 300mm) for each counter.	Nos	4.00		
M-7	Entrance steps				
M-8	Excavation in foundations in ordinary soil up to a depth 1.5m and depositing excavated material to a distance within the site as directed.	m ³	1.00		
M-9	Filling with gravel or other approved quality material (not available at site) supplying, filling, spreading, leveling, watering and compaction as per engineer's instruction. Quantity is measured on compacted volume.	m ³	9.00		
M-10	Mixing placing in position Cement concrete grade G20	m ³	7.00		
M-11	Cement plastering with 1:5 mix, 15mm thick finished semi rough in external walls	m ²	5.00		
M-12	12mm thk. Swan timer formwork	m ²	6.00		
M-13	Tor steel bars	Kg	255.00		
M-14	Providing & Fixing & Painting Name board with lettering of Sri Lanka Railway standards & other Name boards for partially separated rooms for designated officers (Approx. 21 Nos).			Provisional Sum	117,000.00
M-15	Supplying & Fixing Clock as per the given instruction by SLR.			Provisional Sum	50,000.00
	Flower Truff				
M-16	Providing and laying Plain G15 Cement Concrete bed (width 600mm) 75mm thick in approved mix, properly compacted and finished to required level. Constructing 100 mm thick concrete wall in cement mortar (1:3), built to a height of 750 mm above finished ground level, Providing cement plaster 15 mm thick (1:3 mix) to internal faces of planter wall, smooth finished with neat trowel finish. Filling bottom of planter with 50 mm thick gravel layer for drainage. Providing and placing 250 mm thick selected topsoil filling, lightly compacted and prepared for planting. Providing weep holes (50 mm dia PVC or equivalent openings) at approximately 1.0 m to 1.5 m centres, properly positioned just above Base level to ensure drainage.	m	58.00		
M-17	Construction of service Duct 300mm x 450mm (internal size) in 112.5mm thick brick masonry in cement sand mortar, including plastering, forming necessary openings	m	33.00		
	Total for Bill M- Miscellaneous Works carried to Grand Summary			LKR	