



DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF TRANSPORT, HIGHWAYS, PORTS AND CIVIL AVIATION
DEPARTMENT OF SRI LANKA RAILWAYS

**CONSTRUCTION OF ISLAND PLATFORM AND PASSENGER
OVERHEAD BRIDGE AT ABANPOLA**

CONTRACT NO:

BILL OF QUANTITIES

Employer:

General Manager,
Sri Lanka Railways,
P.O. Box 355,
Colombo 10.

Engineer:

Chief Engineer (Way & Works),
Chief Engineer's Office,
Sri Lanka Railways,
No. 01, D.R. Wijewardane Mawatha,
Colombo 10.

AUGUST 2025

**CONSTRUCTION OF ISLAND PLATFORM AND PASSENGER OVERHEAD BRIDGE AT
ABANPOLA RAILWAY STATION**

BILL OF QUANTITIES

GRAND SUMMARY

BILL NO.	DESCRIPTION	AMOUNT(Rs)
Bill No. 01	PRELIMINARIES	-
Bill No. 02	CONSTRUCTION OF ISLAND PLATFORM	-
Bill No. 03	CONSTRUCTION OF PASSENGER OVERHEAD BRIDGE	-
	Basic Cost Estimate	-
	Less Provisional Sums	-
	SUB TOTAL 1	-
	Discount if any	-
	Add Provisional Sums	-
	SUB TOTAL 2 (To be brought forward and filled in the form of bid given in page 13)	-
	ADD PHYSICAL CONTINGENCIES 10 %	-
	ADD PRICE CONTINGENCIES 4 %	-
	SUB TOTAL 3	-
	Add VAT (18% of Sub Total 3)	-
	GRAND TOTAL (Including VAT)	-
Bidder's VAT registration no.....		
Bid Amount (in works) Sri Lanka Rupees		
.....		
Name of Bidder :.....		
Address :.....		
Signature and Seal:		
Witnesses :		
1. Signature	2. Signature	
Name	Name	
Address :	Address:.....	

**CONSTRUCTION OF ISLAND PLATFORM AND PASSENGER OVERHEAD BRIDGE AT ABANPOLA
RAILWAY STATION**

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
A	<u>PRELIMINARIES</u>				
	<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 tender rates.	Note.			
	<u>Mode of Payment</u>				
	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.			
(i)	60% on completion of temporary buildings or structures. 30% installments over the contract period and balance 10% on dismantling and removal on completion. A-8, A-9.	Note.			
(ii)	Paid on satisfactory completion of the item. A-6, A-7	Note.			
(iii)	In equal installments over the contract period A-4, A-5	Note.			
(iv)					
A-1	Provisional sum for providing Mobilization Advance Payment Guarantee.	PS			150,000.00
A-2	Provisional sum for providing Performance Guarantee.	PS			80,000.00
A-3	Provisional 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.)	PS			170,000.00
A-4	Allow lump sum for construct, maintain and removal at the end of the contract temporary buildings for protection & storage of materials & plants and for workshops.	Item			-
A-5	Allow for construct furnish, maintain & removal at end of the contract Contractor's office and Engineer's office separately.	Item			-
A-6	Allow for construct furnish, maintain & removal at end of the contract Contractor's staff accommodations.	Item			-
A-7	Allow for providing safety, health and sanitary facilities for contractor's staff.	Item			-
A-8	Allow for providing and maintaining temporary water supply connection for the use of work throughout the project duration.	Item			-
A-9	Allow lump sum for providing and maintaining temporary electricity service connection for the use of work throughout the project duration.	Item			-
	Page Total Carried to Collection			LKR	

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
	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-10	Project Engineer (Part Time)	Months	3.00		-
A-11	Technical Officer (Full Time)	Months	6.00		-
A-12	Allow for security services for protecting safe guarding the works, materials and plants against wild lifes, trespass or theft until hand over the site and providing special necessary safety signs and person for traffic controls.	Months	6.00		-
A-13	Allow lump sum for demobilisation removal of all rubbish and debris and clearing up site on completion levelling all in good order and handing over.	Item			-
Page Total Carried to Collection				LKR	-
	<p><u>Collection</u></p> <p>Page 2</p> <p>Page 3</p>				-
	Total for Bill A -Preliminaries carried to Grand Summary				LKR

CONSTRUCTION OF ISLAND PLATFORM AT ABANPOLA RAILWAY STATION

BILL NO.	DESCRIPTION	AMOUNT(Rs)
C	EXCAVATION & EARTH WORK	-
D	CONCRETE WORKS	-
E	FORM WORKS	-
F	REINFORCEMENTS	-
H	MISCELLANEOUS WORKS	-
	Total for Bill No.02 - Construction of Island Platform	-

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
B	<u>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. Excavation shall be carried out under the supervision of the SLR officer. An earth auger machine or any other suitable equipment shall be used for column pit excavation, ensuring that the existing ballast cushion is not disturbed.	Note			
B-1	Removing top soil to a depth not exceeding 6" and removing all debris away from site as directed by the Engineer.	Sqrs	160.00		-
B-2	Excavation in trenches for platform wall pits in any soil (except rock requiring blasting) up to a depth of 5ft, part return fill in and depositing excavated material to a distance not exceeding 30ft . <u>Filling & Compaction</u> <u>Note:-</u> Approved earth shall mean filling materials that comply to the following : The earth shall be free of vegetation, roots, boulders, easily decomposable materials, chemicals, industrial waste, plastic etc. The maximum size of particle shall not exceed 7.5mm The earth shall be well graded and the silt and clay (fines) content shall not be more than 25% The Standard proctor density shall be greater than 1.70g/cm ³ The earth spreading,leveling,watering and compaction using standard cast iron tamper or equivalent and filling in 6" thick layers in restricted areas. Filling of the platform with approved imported gravel or other approved fill material, placed in layers not exceeding 6" thick, each layer watered and compacted to 95% of maximum dry density (MDD) as per proctor test, including spreading, ramming, and consolidation, all complete as per specifications and engineer's instructions	Cube	15.00		-
B-3	Supply & Laying 1000 gauge Polythene membrane	Cube	474.00		-
B-4		Sq.ft	9433.00		-
	Total for Bill B-Excavation and Earth Works carried to Grand Summary			LKR	-
C	<u>CONCRETE</u> All concrete shall be so cast as to receive only that finishing on its exposed surfaces as specified in the respective items. Reinforcement & Form work paid for separately unless otherwise specified in the item. Rate shall include for; a) Transporting, depositing, handling, hoisting into position, placing, vibrating etc. and making good after removal of formwork etc. b) Provision of expansion /construction joints with mastic filler where necessary. c) Providing space for down pipes, electrical conduits etc.; during construction of the slab.	Note			
		Note			

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
	d) Forming construction joints, channels and depressions in toilet areas. e) Reinforced concrete fill into form work and pack well around steel reinforcement in followings. f) All costs in connection with the construction of "kickers" g) All cement type to be OPC h) Supplying, fixing and removing after completion of all the false works. i) Curing the concrete. j) Carry out cube testing and other field test as per the relevant BS codes. k) All major structural concrete works (slabs, beams, columns, footings..etc) shall be 'Ready mix' concrete of relevant grade and other minor concrete works (lintols, worktops, floor concretes etc) shall be machine mixing concrete of relevant mix ratios. l) Concrete will be measured as the net area/ volume, as shown on the drawings.	Note Note Note Note Note Note			
C-1	Grade 15 (1 1/2") concrete Mixing and Placing in position and compacting of cement concrete 1:3:6 (1½") using mixer, above one cube. 1'-6"x 1'-6" 1:3:6 (11/2") Mass Concrete around the rail	Cube	14.00		-
	Grade 20 (3/4") concrete Cement concrete 1:2:4(3/4") using mixer, above one cube. (R/F and Shuttering paid for separately)				
C-2	In 4" thk. Platform floor	Cube	16.00		-
C-3	In platform wall	Cube	27.00		-
C-4	In beams (9"x12")	Cube	13.00		-
C-5	In 5" thk. copping	Cube	24.00		-
Total for Bill C - Concrete carried to Grand Summary				LKR	-
D	<u>FORMWORK</u> Rate for form works shall include for all necessary boarding, supports, erecting, framing, cutting angles, cleaning, apply approved foam oil, wetting before placing concrete, removal etc. Form work is measured as the net contact surface measurement between formwork and concrete. Film coated plywood or other equivalent quality approved type of shuttering should be used. Mould oil should be applied to formwork surfaces before using. Rate for form work shall include for all necessary measures to provide fair face finish.	Note Note Note Note			
	Plywood form work (20mm tk.) Supplying and fixing of 3/4" or (20mm) thick plywood form work, including (untreated non-structural category B) timber planks , Battens & Joists for sides, soffits etc. (Rate to include for dismantling the same when required)				
D-1	In Platform wall	Sq.ft	13581.00		-
D-2	In beams	Sq.ft	3327.00		-
D-3	In Copping	Sq.ft	6710.00		-
Total for Bill D - Formwork carried to Grand Summary				LKR	-

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
E	<u>REINFORCEMENT</u> All reinforcement shall be as per relevant British Standards having minimum characteristics strength of 500N/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 etc. Reinforcement	Note Note Note Note			
E-1	Tor steel bars in platform wall	kg	5784.00		-
E-2	Tor steel bars in beams (9" x 12")	kg	1800.00		-
E-3	6mm dia. Mild Steel stirrups in beams	kg	544.00		-
E-4	Tor steel bars in Copping	kg	6360.00		-
Total for Bill E - Reinforcement carried to Grand Summary				LKR	-
F	<u>MISCELLANEOUS WORKS</u> <u>Tack tile</u> F-1 Supplying & Laying 1'-0"x 1'-0"x 0'-2" Tac tile <u>Rail columns</u> F-2 Rails cutting, drilling and placing in position for the Platform wall (8'-2" length 80 lbs rails) F-3 Forming weepholes (50mm dia.) with 40mm graded metal at the back of the platform walls.	Nos Nos L.ft	1642.00 214.00 500.00		- - -
Total for Bill F - Miscellaneous works carried to Grand Summary				LKR	-

CONSTRUCTION OF PASSENGER OVERHEAD BRIDGE AT ABANPOLA RAILWAY STATION

BILL NO.	DESCRIPTION	AMOUNT(Rs)
B	DEMOLISHING	-
C	EXCAVATION & EARTH WORK	-
D	CONCRETE WORKS	-
E	FORM WORKS	-
F	REINFORCEMENTS	-
G	FINISHES	-
H	MISCELLANEOUS WORKS	-
	Total for Bill No.03 - Construction of Overhead Bridge	-

CONSTRUCTION OF PASSENGER OVERHEAD BRIDGE AT ABANPOLA RAILWAY STATION

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
B	<u>DEMOLISHING</u> Bidders are advised to visit the site & be acquainted with the site conditions before pricing. Rates for demolishing shall include for carrying out all work equipment suitable to the nature of this work without any damage to the existing structures on an approved method. Any damages to be rectified at contractor's cost to the approval of the consultant. All precautionary measures to be done to the approval of the consultant prior to commencement of any demolishing work to avoid damages to works outsiders, existing services , existing structures, adjoining properties, public services and to minimize dust , noise and disturbances to other etc. All usable salvaged materials/components realized during the demolishion operations shall be formally handed over to SLR while unusable salvaged things will be promptly removed from the site as directed. Demolishing work shall be carried out under the directions of the Engineer.				
B-1	Make necessary openings in existing platform for column footings and make surfaces			Item sum	
Total for Bill B - Demolishing carried to Grand Summary				LKR	-
C	<u>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			
C-1	Excavation in trenches for column pits in any soil (except rock requiring blasting) up to a depth of 5ft, part return fill in and depositing excavated material to a distance not exceeding 30ft .	Cube	23.00		-
	<u>Filling & Compaction</u> <u>Note:-</u> Approved earth shall mean filling materials that comply to the following : The earth shall be free of vegetation, roots, boulders, easily decomposable materials, chemicals, industrial waste, plastic etc. The maximum size of particle shall not exceed 7.5mm The earth shall be well graded and the silt and clay (fines) content shall not be more than 25% The Standard proctor density shall be greater than 1.70g/cm ³ The earth spreading,leveling,watering and compaction using standard cast iron tamper or equivalent and filling in 6" thick layers in restricted areas.				
C-2	Filling under foundations and other structures with gravel or other approved quality imported filling material. Spreading watering and well ramming in 150mm layers and consolidated.	Cube	20.00		-
Total for Bill C -Excavation and Earth Works carried to Grand Summary				LKR	-

CONSTRUCTION OF PASSENGER OVERHEAD BRIDGE AT ABANPOLA RAILWAY STATION

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
D	<p>CONCRETE</p> <p>All concrete shall be so cast as to receive only that finishing on its exposed surfaces as specified in the respective items. Reinforcement & Form work paid for separately unless otherwise specified in the item.</p> <p>Rate shall include for;</p> <p>a) Transporting, depositing, handling, hoisting into position, placing, vibrating etc. and making good after removal of formwork etc.</p> <p>b) Provision of expansion /construction joints with mastic filler where necessary.</p> <p>c) Providing space for down pipes, electrical conduits etc.; during construction of the slab.</p> <p>d) Forming construction joints, channels and depressions in toilet areas.</p> <p>e) Reinforced concrete fill into form work and pack well around steel reinforcement in followings.</p> <p>f) All costs in connection with the construction of "kickers"</p> <p>g) All cement type to be OPC</p> <p>h) Supplying, fixing and removing after completion of all the false works.</p> <p>i) Curing the concrete.</p> <p>j) Carry out cube testing and other field test as per the relevant BS codes.</p> <p>k) All major structural concrete works (slabs, beams, columns, footings..etc) shall be 'Ready mix' concrete of relevant grade and other minor concrete works (lintols, worktops, floor concretes etc) shall be machine mixing concrete of relevant mix ratios.</p> <p>l) Concrete will be measured as the net area/ volume, as shown on the drawings.</p> <p>Grade 15 (1 1/2") concrete 3" thk. cement concrete 1:3:6 (1 1/2") using mixer, above one cube including mixing and placing in position and compacting in column bases</p> <p>Grade 25 (3/4") concrete Cement concrete 1:1 1/2:3 (3/4") using mixer including mixing and placing in position and compacting in column bases</p>				
		Note			
		Note			
		Note			
		Note			
		Note			
		Note			
		Note			
		Note			
D-1	In Column base	Cube	4.00		-
D-2	In Plinth	Cube	1.00		-
D-3	In column bases	Cube	4.00		-
D-4	In Column shafts (12" x 12")	Cube	3.00		-
D-5	In beams (12"x 24")	Cube	1.00		-
D-6	In beams (12"x 14")	Cube	1.00		-
D-7	In Steps & Strips	Cube	4.00		-
Total for Bill D - Concrete carried to Grand Summary				LKR	-

CONSTRUCTION OF PASSENGER OVERHEAD BRIDGE AT ABANPOLA RAILWAY STATION

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
E	<u>FORMWORK</u>				
	Rate for form works shall include for all necessary boarding, supports, erecting, framing, cutting angles, cleaning, apply approved foam oil, wetting before placing concrete, removal etc.	Note			
	Form work is measured as the net contact surface measurement between formwork and concrete.	Note			
	Film coated plywood or other equivalent quality approved type of shuttering should be used. Mould oil should be applied to formwork surfaces before using.	Note			
	Rate for form work shall include for all necessary measures to provide fair face finish.	Note			
	Plywood form work (20mm tk.)				
E-1	Supplying and fixing of 3/4" or (20mm) thick plywood form work, including (untreated non-structural category B) timber planks, Battens & Joists for sides, soffits etc. (Rate to include for dismantling the same when required)	Sq.ft	1940.00		-
Total for Bill E - Formwork carried to Grand Summary				LKR	-
F	<u>REINFORCEMENT</u>				
	All reinforcement shall be as per relevant British Standards having minimum characteristics strength of 500N/mm ² for Height Yield steel and 250 N/mm ² for mild steel.	Note			
	Rate shall include for necessary tests as per BS4449 and SLS 375:2009	Note			
	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.	Note			
	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 etc.	Note			
F-1	Reinforcement Tor steel bars	kg	2990.00		-
Total for Bill F - Reinforcement carried to Grand Summary				LKR	-
G	<u>FINISHES</u>				
G-1	(5/8") thick plastering 1:5 cement and sand semi rough	Sqr	13.00		-
G-2	Rendering, (1/2") thick, 1:3 cement and sand, above 1 square.	Sqr	7.00		-
G-3	Cleaning and preparing surface for painting walls including one coat of Primer (filler) and two coat of weathershield paint (Heritage Red)	Sqr	13.00		-
Total for Bill G - Reinforcement carried to Grand Summary				LKR	-

CONSTRUCTION OF PASSENGER OVERHEAD BRIDGE AT ABANPOLA RAILWAY STATION

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT(Rs)
H	<u>MISCELLANEOUS WORKS</u> While placing the PSC beams, only the hoisting into position will be carried out using the Sri Lanka Railway Crane, free of charge, due to the difficulty in accessing the site with road crane. All other activities including purchasing, transportation to the site, setting out and accurate placement shall be the sole responsibility of the Contractor.				
H-1	Allow for P.S.C.beam 43'-7" long including transporting, placing hosting in position (2 nos)	Nos	2.00		-
H-2	Supplying & Laying 5'-0"x 1'-0"x 0'-4" Pre cast slab panels	Nos	44.00		-
H-3	Hand rail Supplying, fabricating and fixing GI handrail consist of 2" dia., 3mm Thk. GI pipe upright at 4' c/c as vertical members fixed bottom end to concrete with the 4"x4"x12mm thick MS plate connecting with 4 nos of 10mm dia. anchor bolts and top and bottom end welded to 2" dia. 3mm Thk. GI pipe finished smooth and work complete in order. Rate shall include for applying one coat of etch primer, one coat of anticorrosive primer with two coats of enamel paint	L.ft	221.00		-
H-4	Supplying and fixing of 20mm dia. Stainless steel dowel bar 300mm in length to the RCC Beam.	Nos	8.00		-
Total for Bill H - Miscellaneous works carried to Grand Summary				LKR	-