

DEMOCRATIC SOCIALIST REPUBLIC OF SIR LANKA MINISTRY OF PORTS & HIGHWAYS

ROAD DEVELOPMENT AUTHORITY

CHINESE DEVELOPMENT BANK FUNDED IMPROVEMENT AND REHABILITATION OF PRIORITY ROAD PROJECT 1 (PRP1)

AGREEMENT FOR

CIVIL WORK CONTRACTS

CONTRACT NO. RDA/RNIP/PRP1/PACKAGE-A (C1A, C2A, C3, C6A & C8)

Component Ref.	Name of the Road
RDA/RNIP/PRP1/C1A	Improvement & Rehabilitation of B141 Beliatta - Tangalle Road (7.47 km) Improvement & Rehabilitation of Bopale Junction - Kiri Ibbanara - Udamauara Road (8.5 km) Construction of a flyover at Siribopura Junction
RDA/RNIP/PRP1/C2A	Improvement & Rehabilitation of B363 Pelawatta - Kankotiyawatta - Thiniyawala - Morawaka Road (47 km)
RDA/RNIP/PRP1/C3	Improvement & Rehabilitation of B421 Thiruwanaketiya - Agalawatta Road (33.45 km)
RDA/RNIP/PRP1/C6A	Improvement & Rehabilitation of A026 Kandy - Mahiyangana - Padiyathalawa Road (20.5 km)
RDA/RNIP/PRP1/C8	Improvement & Rehabilitation of B184 Kalkudah Road (5.63 km) Improvement & Rehabilitation of B185 Kalkudah - Valachchenai Road (4.42 km)

BETWEEN

True Copy. Pages 01-112

THE ROAD DEVELOPMENT AUTHORITY OF SRI LANKA

AND

THE CHINA NATIONAL AERO TECHNOLOGY INTERNATIONAL T. I. N. TISSERA
ENGINEERING CORPORATION (CATIC-ENG) OF CHINARoad Development Authority

VOLUME 5

Preamble to the Bill of Quantities
Priced Bill of Quantities and Schedules

21 DECEMBER 2010

SCOPE OF WORK

SCOPE OF WORKS

1.1 The works involve the rehabilitation of the existing road with improvement to the road geometry together with improvement to longitudinal drainage, the widening, repairing or reconstruction of existing culverts & bridges and construction of new culverts, bridges and flyovers as required.

The contractor is required to carryout the design of all components of the work in the contract.

The contractor is required to carry out improvements to the geometry of the road within the existing Right of Way (ROW) unless otherwise specified. The topographical survey, level survey and cross section survey necessary for this work is also required to be carried out by the contractor. The proposed improvements to the geometry require the approval of the Engineer.

A road condition investigation consisting of visual inspection, DCP testing & trial pits with materials testing is required to be done by the contractor. Based on this investigation, sections of road that require rehabilitation over and above the pavement thickness shown in the bid documents is to be identified by the contractor. The additional thickness of condition proposed (if any) require the approval of the Engineer.

The contractor will design bridges and culvers identified for widening and reconstruction. The contractor will also design all protection works in the form of gabion walls, retaining walls, toe walls, etc. These designs require the approval of the Engineer.

The contractor will prepare the working drawings resulting from the above and submit same to the Engineer for approval. The contractor will set out the centre line in accordance with the approved drawings.

The Work will be carried out within the existing ROW unless otherwise specified and will include, inter alia, the following:

- Rehabilitation works will generally consist of raising the flooding sections, widening the carriageway to the required standard where possible within the ROW, rebuilding the shoulders to the required width on either side, strengthening the base and constructing hot mix asphalt concrete overlays comprising profile correction course where required and a wearing course.
- In the case of heavily distressed or deformed sections of the existing road, rehabilitation will involve the reconstruction of the pavement from sub-grade level or any other level as per the instructions of the Engineer.
- Shoulders will be rehabilitated with granular material and in urban areas the shoulder will be constructed as raised pedestrian walks or covered drains as directed by the Engineer.
- Longitudinal drainage works will involve the provision/rehabilitation of lined drains in either masonry or concrete in hilly sections, where erosion is a concern; unlined longitudinal drains will generally be constructed/rehabilitated in rural sections.
- Transverse drainage improvements will involve the extension of existing culverts; replacement of existing damaged culverts; the provision of new culverts as per the Engineers instruction.
- Similarly, narrow structurally sound bridge will be widened to the required width and damaged bridges will be reconstructed.

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- Both longitudinal and transverse subsoil drainage will be introduced in areas
 of high water table affecting sub grade support.
- Protection works in the form of gabion, masonry or concrete retaining walls or toe walls may also be required to stabilize cut slopes or embankments where localized earthworks are involved.
- 1.2 The scope of the works will also address the following issues:
 - Provision and maintenance of facilities for the Engineer including office accommodation, vehicles, fully equipped materials testing laboratory for the works etc.
 - Provision & maintenance of facilities for the employer including office accommodation and vehicles.
 - Implementing and managing site safety
 - Implementing and maintaining traffic management along the project.
 - Protection of the environment and mitigating potential hazards.
 - Maintaining access to adjacent properties.
 - Locating and removing of mines and UXO (if applicable).
- 1.3 The contractor will be required to generally maintain the road section covered by the Contract during construction of the Works to ensure the safety of the public and residents along the road and minimum disruption to flow of traffic to the satisfaction of the Engineer.

If the Contractor fails to maintain the road to ensure the safety of road users, the public and residents along the road and minimum disruption to flow of traffic to the satisfaction of the Engineer, the Engineer shall be entitled to employ a sub-contractor to carry out the required works and pay for such work done and recover the cost from the Contractor. The Engineer may, without prejudice to any other method of recovery, deduct such cost from any money due or which may become due to the Contractor and such deduction shall not relieve the Contractor of any of his obligations under the Contract.

- 1.4 The scope of work is deemed to include any other item of work that may be required to be carried out for the proper completion of the Works in all respects in accordance with the provisions of the Contract.
- 1.5 The quality control in the contract will be required to be carried out in accordance with the technical specifications.

Preamble to the Bill of Quantities

PREAMBLE TO BILL OF QUANTITIES

1. General

The Contractor's attention is specifically directed to the Conditions of Contract, the Special Conditions and Specification and the Drawings, which are to be read in conjunction with the Bill of Quantities and the Preamble.

2. Application of Preamble to Subsequent Work

The relevant clause of this Preamble shall be deemed to apply equally to work subsequently ordered for execution by the Contractor, either under Provisional Sum orders or variation orders, except where specifically varied therein.

3. Method of Measurement

The Works as executed will be measured for payment in accordance with the method adopted in the Bill of Quantities and under the item as therein set forth. The net measurement or weight of the finished work in place will always be taken, and except where otherwise stated or where separate items are provided, no allowance will be made for cutting, waste, laps, circular work, etc., and no deductions will be made for grout nicks, joggle holes, rounded arises or for shrinkage for fitting ironwork and the like.

Payment will be made for only those materials, which are specified and permanently installed in the works to the approval of the Engineer. Construction malerials supplied and delivered to the site by the Contractor which become surplus to the requirements of the works shall become the property of the Contractor who shall reimburse the Employer any money that was paid to the Contractor for the supply and delivery to site of the surplus materials.

4. Units and Extension of Bills of Quantities

All sizes and quantities have been entered in the Bills of Quantities in Metric Units. Figures involving decimals, including sums of money are written in the British tradition, namely, with a full stop in the decimal position and commas between each successive group of three digits to the left of the decimal position.

The Bidder shall indicate the total amount for each item (i.e. the quantity multiplied by the rate) to the nearest cent when inserting the figures in the BOQ.

5. Rates and Sums to be for Work Complete

Notwithstanding any limits which may be implied by the wording of the individual items and/or explanation in this preamble it is to be clearly understood by the Contractor that the rates and sums which he enters in the Bills of Quantities shall be for the work finished complete in every respect, he shall be deemed to have taken full account of all requirements and obligations, whether expressed or implied, covered by all parts of the Contract, and to have priced the items herein accordingly. The rates and sums must therefore include for all incidental and contingent expenses and risks of every kind necessary to construct, complete and maintain the whole of the Works in accordance with the Contract. Full allowance shall be made in the rates and/or sums against the various items in the Bills of Quantities for all costs involved in the following inter-alia, which are referred to and/or specified herein except where separate items are provided.

- (1) All site investigations, which may be necessary;
- (2) All setting out and survey work;
- (3) Temporary fencing, watching, and lighting;
- (4) Paying fees and giving notice to authorities;
- (5) Payment of all patent rights and royalties;
- (6) Reinstatement of the site;
- (7) Safety precautions and all measures to prevent and suppress fire and other hazards;
- (8) Interference to the works by persons, vehicles, and the like using the existing facilities;
- (9) Works in connection with the protection and safety of adjacent structures;
- (10) Supplying, maintaining and removing on completion Contractor's own accommodation, offices, stores, workshops, transport, welfare services and all charge in connection therewith; except those for which a separate BOQ item is provided;
- (11) Working in the dry except where otherwise permitted by the specification;
- (12) Maintaining access roads;
- (13) The supply, inspection, sampling and testing of materials and of the Works under construction, including the provision and use of equipment;
- (14) Except where separate items are provided for bringing plant to the site and removing on completion, for providing, transporting to site, setting to work operating (including all fuel and consumable stores), maintaining and removing from the site upon completion all construction plant and equipment necessary for the execution of the work, including the cost of all tests and other requirements in respect to such plant and equipment;
- (15) The recruitment, bringing to and from the site, accommodating and feeding and all incidental costs and expenses involved in the provision of all necessary skilled and unskilled labour and supervision, except for whom a separate BOQ item is provided;
- (16) All statutory taxes and levy, surcharges etc. including stamp duty payable on the contract, which will have to be borne by the Contractor.

No claim will be considered for further payment in respect of any work or method of execution, which may be described in the Contract or is inherent in the construction of the work and detailed on the drawings on account of

- (1) any omission from the wording of the items or from a clause in the Preamble or
- (2) no mention of such work or method of execution having been in the Preamble

Items against which no rates or sum is entered by the Contractor, whether quantities are stated or not, will not be paid for when executed, but will be regarded as covered by other rates in the Bills of Quantities.

The quantities set out in the Bills of Quantities are the estimated quantities of the work and they shall not be taken as the actual and correct quantities of the works to be executed by the contractor in fulfillment of his obligation under the contact.

The Contractor shall be deemed to have taken into account all recognized holidays, festivals, religious and other customs in his Bid Prices and his Construction Programmes.

6. Rates and Sums to Bear Proper Relation to Work Described

The rates and sums entered by the Contractor against all ilems in the Bills of Quantities must bear a proper relationship to the cost of carrying out the work described in the Contract; all on costs and similar charges which are applicable to the Contract as a whole are to be spread over all the rates in the Bills of Quantities, whilst those which are applicable only to particular sections of the Contract are only to be spread over items to which these sections refer.

However, the Contractor shall ascertain the exact nature and extent of work to be performed by reference to the Drawings, Specifications and Conditions of Contract as the case may be.

(b) 3/4 (c)

7. Provisional Sum Items

Provisional Sums will be dealt with as provided for in the Conditions of Contract.

Provisional Sums are represented by the words "Provisional Sum" or "PS" entered under the description.

The Bidder shall indicate a percentage figure and the amount in the appropriate BOQ item provided, based on the total sum of all such "Provisional Sums", to cover up his overhead costs, profits and any other related costs involved in executing the work under provisional sum items.

The total payment to the Contractor under this BOQ item will be assessed by applying the percentage rate indicated by Contractor on the actual total amount of Provisional Sums spent in the Contract.

8. Provisional Quantity Items

Certain items in the Bills of Quantities are designated "Provisional Quantity" in the description column to indicate that the quantities for the work covered by such items are provisional, or that the provision of such facilities as are described in the items may not in the event be required under the contract. All items so designated will be used only at the direction and discretion of the Engineer, and if not used either wholly or in part shall, as to the amount not used, be deducted from the Contract Price. Where such items consist of a sum, the Contractor shall enter a lump sum, which shall be the price for the work if executed, as distinct from a "Provisional Sum" as defined herein.

No claim will be entertained in respect of overhead charges or any other costs, which may allegedly result from the omission of all, or part of the work covered by such "Provisional Quantity" Items.

9. Payment of Items in a Monthly Basis

Payment under items, which are measured on a monthly basis, will not be commenced until the facilities described in the items and the Specification has been provided to the satisfaction of the Engineer. Payment will continue until such time as the Engineer shall signify that facilities are no longer required.

Certain manpower inputs by the Contractor for certain specific positions will be paid under the BOQ items provided for this purpose. Any other manpower inputs by the Contractor will not be paid under these items.

Payment of Lump Sums for General Items

Lump Sum items stipulated in Bill No-1, which are related to specific work will be paid on the basis of the proportion of actual work done to the total work of that specific item as assessed by the Engineer.

Items with quantities and units will be paid against number of units used and/or incorporated in the works.

Protection of Work and Cleaning up on Completion

The Contractor shall allow, in his rates, for protecting completed work from subsequent operations, making good all damage to complete work, for clearing away all rubbish as it accumulates, and leaving the site in a tidy condition to the satisfaction of the Engineer.

12. Demolition

The rates and prices for demolition shall include for;

(1) The activities prior to the demolition, including further surveys, investigations.

(2) Providing adequate supports to the adjacent structures and the structure to be demolished, including the shoring, propping needling etc.

(3) Removal of all debris as directed, and recover the salvaged material.

(4) Making good of all works disturbed or damaged.

(5) Diverting or disconnecting any existing service lines which could be affected.

13. Site Clearance

Rates for site clearance shall include (if not separately allowed) for the removal of all trees, shrubs, boulders or other debris from the area of the site and disposal of same in an approved location, spreading at least 100mm of topsoil over the site upon completion.

14. Earthworks

(1) Excavation in all Material except Rock

The rates and prices for excavations shall be for all types of material encountered except rock including ground conditions above or below water level. The Contractor must make due allowance for the possibility of permission not being granted to the use of explosives for blasting and other operations.

(a) For structures, volume of material excavated measured as the product of the horizontal area of the base of permanent work to be constructed and the mean depth below ground level, or measured as the volume to be occupied by permanent work below ground level, whichever is the greater.

In no case shall any of the following quantities be included in the measurement for payment.

- (1) Quantity outside the vertical planes of neat outline of foundation structures unless shown otherwise on the drawings.
- (2) Quantity of excavation and/or backfill for water supply pipe lines, sewer pipelines, and storm drainage except as allowed for in pipeline construction as specified.
- Quantity of any excavation performed prior to the taking of measurements of the undisturbed natural ground.
- (4) Quantity of any material re-handled, except where the drawings indicate or the Engineer directs the excavation after embankment has been placed.
- (5) Removal of slides, cave-ins, silting or filling due to the action of the elements or weather and/or carelessness of the Contractor.
- (b) For unsuitable material, volume of excavated material shall be measured as volume of material (below base of the permanent works) directed to be removed by the Engineer. However, this does not include removal of material rendered unsuitable due to contractor's method of excavation.

No allowance is made for bulking or for any extra transport required due to bulking. The rates shall include, if separate items are not provided but not by way of limitation, for:

(1) excavation to the correct depth and preserving the bottoms of excavations in a state suitable for the reception of concrete or other foundation work, and no payment will be made for any concrete or any bedding required for filling over-excavated volumes or disturbed areas to the net dimensions as indicated on the Drawings,

- (2) any additional excavation required for shuttering, working space, temporary or permanent shoring, and subsequent refilling and ramming and disposal of surplus and back fills behind structures,
- (3) provision of storage areas for the temporary storage of any material required for back filling which cannot be stored alongside the excavation for any reason, together with the cost of transporting, loading including disposal of surplus and unloading such material and all other charges incurred in this respect,
- (4) trimming the bottoms of excavations including bottoming to falls, and trimming to sloping surfaces where required or indicated on the Drawings.
- (5) taking all precautions by supporting faces of excavation to ensure the safety of the workmen and to prevent damage to adjacent walls, building and all other structures and services, including permanent and/or temporary shoring of trenches,
- (6) keeping the site and trenches and all other excavations free from water from whatever cause arising,
- (7) for clearing any scrub or other vegetable growth including all trees and for disposing of the whole of the cleared material to tip provided by the Contractor,
- (8) all temporary and permanent measures required to protect and support all existing pipes, cables and services, including all chambers, gullies and foundations thereto, or repair or replace them should they become damaged due to the Contractor's activities,
- (9) all barriers, lighting, warning signs and any other measures necessary to ensure complete safety around the area of the works,
- (10) reinstatement except where separate items are included.

(2) Excavation in Rock

Excavation in rock, which shall, in all cases, be measured extra over measurement under 1(a) or 1(b) above by volume from the level at which rock is encountered. For work described under 1(a) and 1(b), measurement shall be as specified therein.

(3) Fill

Fill shall be measured as the net volume above ground level of the permanent earthwork to the dimensions shown on the Drawings or ordered by the Engineer, irrespective of source of material. The rate shall include for selection, handling, placing, compaction of excavated or imported material and cost of control and material selecting tests (field and laboratory). Costs incurred in connection with the remedial work ordered by the Engineer consequent to the results of control tests falling below the minimum specified shall be borne by the Contractor.

15. Concrete

The rates for concrete are to include for

- (1) all costs incurred in determining the mixes to satisfy the Specification (including any admixtures);
- (2) supplying all material (including any admixtures), storing, mixing, transporting, placing and compaction (whether by hand or vibration);
- excavation as required below previously filled levels and back filling (except where separate items are provided);
- (4) roughening the surface of previously executed work as required in order to provide the necessary bond with new concrete;
- (5) achieving specified tolerance;

- (6) forming sloping, falls and the like;
- (7) forming holes or boxing out for pipes, bolts, frames for covers and other steel work;
- (8) building in cable conduit, pipes, junction boxes etc;
- (9) forming 25mm chamfers on all external arises to exposed concrete;
- (10) forming all construction joints, keys, stop ends, temporary stops and shuttering of other than permanently exposed faces (except where separate items are provided);
- (11) curing the concrete and all measures to protect freshly poured concrete from direct sunlight and wave action;
- (12) troweling, rubbing down etc. and making good the concrete surfaces to provide the specified finishes;
- (13) the cost of control testing throughout the period of concreting and for the testing of concrete and remedial work ordered by the Engineer consequent to the results of control tests falling below the minimum specified;
- (14) overtime working to maintain continuity of casting;
- (15) a daily return to the Engineer showing the quantities of cement and the volume of concrete placed and compacted in position, of each class of concrete in each section of the works and temporary works.

The measurement of concrete shall be by cubic metre, square metre or linear metre of completed structure. Where volumetric measure is used, no deductions will be made for channels, recesses or rebates less than 600mm girth, for splays or chamfers less than 300mm measured on the splay nor for holes or ducts formed in the concrete less than 1m girth. Fillets less than 300mm on the splay will be measured.

16. Form Work

Rates and prices for the formwork shall include for

- (1) general formwork, working in narrow spaces and small quantities, for setting up, strutting and supporting at any height, together with any necessary strutting and supporting through lower floors, applying mould oil, use of polythene, easing, striking and removing, cleaning preparing for reuse, and removal, including all props, stays, struts, wedges, bolts etc;
- (2) all fillets to form grooves, rebates, throats, splays or chamfers, raking, circular cutting, cutting around all pipes, sleeves, conduits etc;
- (3) Providing samples to the Engineer for approval.

17. Steel Reinforcement

The rates for steel bar and steel fabric reinforcement shall include for supplying, transporting, storing, cleaning, cutting bending, all labour in working, distribution to the various parts of the works, fixing in position and supporting and for the use of binding wire and for welding where indicated.

The unit of measurement for steel reinforcement is the Kilogram (kg.) and the weight of steel has been calculated net with no allowance made for wastage or laps and the cost of these will be deemed to be covered in the rates.

The weight of steel supports, spacer bars and ties, but including stirrups and binders, used to locate and hold the reinforcement in place is not included in the quantity and the cost of these will be deemed to be covered in the rates.

18. Timber

The rates for timber shall include for all handling, labour and waste, for all chamfers and nosing and for protective treatment except where otherwise provided. The rates for timber for permanent works are to allow for the use of new properly seasoned new timber.

19. Brickwork

The basis of measurement for brickwork walls shall be the overall area of the walls measured in plane elevation, no allowance being made for setbacks, recesses and nibs.

Rates for brickwork shall include for bricks of the thickness stated bounded in cement mortar, damp proof course, finishing around all openings vertical expansion joints as required, building in electrical conduit and small pipes and tubes, galvanized wire ties to steel work and concrete.

20. Hand Railing

Rates and prices for hand railing shall be for handrail materials and forged standards as specified including all bends, removable sections, wall hooks, fixings and painting.

21. Painting and Protective Coatings

The rate for painting and protective coatings, whether measured separately or included in other items, is to include for all temporary staging ladders and the like, covering the adjacent works to prevent splashing providing adequate protection to the work being painted or coated against dust, spray and other foreign matter, for all preparation and priming, carrying out the work in materials and colours to the requirements of the Engineer, curling in edges, washing off stains, and leaving the whole of the work perfect on completion. The rates for painting are to allow the applying of the final coat of paint immediately prior to handing over any section of the work.

22. Fences and Boundary Walls

Rates for fences and boundary walls shall include but not limited to, excavation, refilling and ramming, disposal of surplus, materials for construction of fences and boundary walls, and all painting.

23. Unit of Measurement

Metric units are used throughout the Bill of Quantities for measurement purposes unless otherwise indicated. The following abbreviations are used in this Contract.

Unit		-	Abbreviation
Millimetre .	×	1.0	mm
Metre		COQ ST	m
Square metre		0.0	m ² or sq m
Cubic metre			m³ or cu m
Kilometre			km
Kilo gram			kg
Tonne			t
Litre			Itr
Number			nr
Provisional Sum			PS
Lump Sum			LS
Hour			h
Week			wk
Month			mon
Labour day			L.day
Man Month			MM.
Sri Lanka Rupees			Rs.
Cents.			Cts.

DAYWORK SCHEDULE 24.

General

Reference should be made to Clause 13.6 of the Conditions of Contract. Work shall not be executed on a day work basis except by written order of the Engineer. Contractors shall enter rates for day work items in schedules, which rates shall apply to any quantity of day work ordered by the Engineer.

The Contractors shall price all items in the day work schedule for Labour, Constructional Plant and Material.

Labour

The contractor is to enter hereunder the individual rates for labour for skilled and unskilled workers and gangers employed on dayworks solely on the direction of the Engineer. The quantities given below are all provisional and these rates shall include to cover all costs of the Contractor including the amount of wages paid to such labour, transportation time, overtime, subsistence allowance, and any sums paid to or on behalf of such labour for social benefits in accordance with law of the country, as well as Contractor's profit, overheads, superintendence, liabilities and insurance and allowance to labour, timekeeping and clerical and office work, the use of consumable stores, water, lighting and power use and repair of staging, scaffolding, workshops and stores, portable power tools, manual plant and tools, supervision by the Contractor's staff, foremen and other supervisory personnel; and charges incidental to the foregoing.

Constructional Plant

The Contractor shall be entitled to payments in respect of Constructional Plant already on Site and employed on daywork at the rental rates entered by him in the "Schedule of Daywork Rates: Constructional Plant".

The rates shall be deemed to include due and complete allowance for depreciation, interest, indemnity and insurance, repairs, maintenance, supplies, fuel, lubricants, and other consumable, and all overhead profit and administrative costs related to the use of such plant. The cost of drivers, operators and assistants will be paid for separately as described under the section on Daywork Labour.

In calculating the payment due to the Contractor for Constructional Plant employed on daywork, only the actual number of working hours will be eligible for payment, except that where applicable and agreed with the Engineer, the traveling time from the part of the Site where the Constructional Plant was located when ordered by the Engineer to be employed on daywork and the time for return journey thereto shall be included for payment.

Materials

The contractor shall be entitled to payments in respect of materials used for daywork at the rates enterd by him in the "Schedule of Daywork Rates: Materials" together with an additional percentage payment on the basic rate to cover overhead charges and profit as follows:

(a) the basic rates for materials shall be calculated on the basis of the invoiced price, freight, insurance, handling expenses, damages, losses, etc., and shall provide for delivery to store for stock piling at the Site as directed by the Engineer.

The contractor may allow an additional percentage payment on the actual cost of materials to allow for his handling and storage costs, overhead profit. The percentage mark up cost shall be inserted by the Contractor in the appropriate item in the Daywork Schedule.

(b) the cost of hauling materials for use on work ordered to be carried out as daywork from the store or stockpile on the Site to the place where it is to be used will be paid in accordance with the terms for Labour and Constructional Plant.

THE PRICED BILL OF QUANTITIES AND SCHEDULES

PRP 1 / C1A - 1

Improvement and Rehabilitation of Priority Road Project Contract Package No - RDA/RNIP/PRP1/C1

Hakmana - Beliatte - Tangalle Road Section from 11.5 km (Beliatte) to 19.31 km (Tangalle) Length of the Section 7.47km

BILL OF QUANTITIES

W-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	SUMMARY	AMOUNT(Rs.)
No.	Description	AMOUNT(RS.)
-, -	Preliminary and General 1 A	141,492,526.60
1 F	1 B	83,421,360.00
		240,000.00
	Site Clearing	15,406,200.00
	Earthworks	287,712,530.00
	Road Pavement	45,286,050.00
	Drainage	30,166,210.00
	Bridges and Culverts	23,491,600.00
	Incidentals	27,365,000.00
	Provisional Sums	200,250.00
	Day works - Labour	
9	Day works -Equipment	1,033,000.00
	Day works - Materials	655 814 726 60
ub - Total	1:	655,814,726.66
	sum for Price Escalation 8%	52,465,178.1 65,581,472,6
	sum for Price Escalation 8% es at 10% of Sub - Total 1	
		65,581,472.6
Contingencie	es at 10% of Sub - Total 1	65,581,472.6
Contingencie TENDER PI	es at 10% of Sub - Total 1	65,581,472.6
Contingencie TENDER PI	es at 10% of Sub - Total 1	65,581,472.6
Contingencie TENDER PI	es at 10% of Sub - Total 1	52,465,178.1: 65,581,472.6 773,861,377.3
TENDER PI	RICE Rupees:	65,581,472.6
TENDER PI	es at 10% of Sub - Total 1	773,861,377.3
TENDER PI	RICE Rupees:	773,861,377.3
TENDER PI In words	RICE Rupees: d tax at 12% of the Tender Price Signature Name	773,861,377.3
TENDER PI In words	RICE Rupees: d tax at 12% of the Tender Price Signature	773,861,377.3
TENDER PI In words	RICE Rupees: d tax at 12% of the Tender Price Signature Name	773,861,377.3
TENDER PI In words Value adde	RICE Rupees: d tax at 12% of the Tender Price Signature Name Address Signature Name Name Name Name Name	65,581,472.6 773,861,377.3
TENDER PI In words Value adde	RICE Rupees: d tax at 12% of the Tender Price Signature Name Address Signature	773,861,377.3
TENDER PI In words Value adde	RICE Rupees: d tax at 12% of the Tender Price Signature Name Address Signature Name Address	773,861,377.3
TENDER PI In words Value adde Bidder: Witness 1	RICE Rupees: d tax at 12% of the Tender Price Signature Name Address Signature Name Address	773,861,377.3

14)

2 108.2(1) Allow for the cost of pri 3 108.3(1) Mobilization of Contract 4 108.3(2) De-Mobilization of Cort 5 108.7(1) Provide and maintain 6 108.7(2) Provide and maintain 7 118.4(1) Provide Main office for 8 118.4(2) Provide Secondary of 9 118.4(3) Provide Housing for the 10 118.6(1) Provide Housing for the 11 118.6(1) Provide Housing for the 11 118.8(1) Purchase and supply of Volume 1 Purchase and supply Volume 1 118.8(3) Purchase and supply Volume 1 118.8(4) Purchase and supply Volume 1 118.8(5) Over heads and profing 118.8(6) Over heads and profing 118.8(7) Over heads and profing 118.8(10) Purchase and supply Volume 1 118.8(11) Purchase and supply Volume 1 118.8(12) Over heads and profing 118.8(12) Over	ce for the Engineer. In office for the Engineer. In the Employer for the Employer for the Engineer Engineer Inply Vehicle Type 1-A as specification Inply Vehicle Type 2 as specification In profit for supply of vehicle Type Employer In profit for supply of vehicle Type In profit for supp	requipment If Equipment If E	of P.Sum of P.Sum of P.Sum % % %	Allow Allow Allow Allow 7 12 1 1 1 1 allow allow 31,000,000.00 6,000,000.00	RATE 11,000,000.00 11,446,426.60 8,500,000.00 3,500,000.00 283,000.00 1,500,000.00 1,300,000.00 198,500.00 25,000,000.00 300,000.00 10%	AMOUNT (Rs) 11,000,000.00 11,446,426.60 8,500,000.00 268,100.00 3,396,000.00 1,500,000.00 1,000,000.00 198,500.0 25,000,000.00 6,000,000.00 3,100,000.00 3,100,000.00 6,000,000.00 6,000,000.00 6,000,000.00
2 108.2(1) Allow for the cost of prostroid to the cost of provide and maintain provide and maintain provide and maintain provide to the cost of	of providing Insurances contractor's facilities and Plant / E of Contractor's facilities & Plant / of Contractor's facilities & Plant / of Contractor's facilities & Plant / of the Project sign board of the Engineer. Of the Employer of the Engineer opply Vehicle Type 1-A as specifically by Vehicle Type 2 as specifically profit for supply of vehicle Type of profit for supply	requipment If Equipment If E	LS/ LS LS IS IN IN IN IN IN IN IN IN I	Allow Allow Allow 7 12 1 (5) 1 1 1 1 allow allow allow 31,000,000.00 6,000,000.00	11,446,426.50 8,500,000.00 3,500,000.00 38,300.00 283,000.00 1,500,000.00 1,300,000.00 198,500.00 198,500.00 25,000,000.00 6,000,000.00 300,000.00 10%	11,446,426.60 8,500,000.00 3,500,000.00 268,100.00 1,500,000.00 1,500,000.00 1,000,000.00 198,500.0 25,000,000.00 6,000,000.00 300,000.00 3,100,000.00
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108.7(2) Provide and maintain	ntain Plaques ce for the Engineer. ary office for the Engineer. The Employer for the Employer for the Employer for the Employer for the Engineer Engineer Upply Vehicle Type 1-A as specific upply Vehicle Type 2 as specific upply Vehicle Type 3 as specific upply Vehicle Type 1 as specific upply Vehicle Type 1 as specific upply Vehicle Type 2 as specific upply Vehicle Type 2 as specific upply Vehicle Type 2 as specific upply Vehicle Type 3 as specific upply Vehicle Type 3 as specific upply Vehicle Type 4 as specific upply Vehicle Type 5 as specific upply Vehicle Type 6 as specific upply Vehicle Type 7 as specific upply Vehicle Type 8 as specific upply Vehicle Type 9 as specific upply Vehicle Type 1 as specific upply Vehicle Type 2 as specific upply Vehicle Type 1 as specific upply Vehicle Type 2 as specific upply Vehicle Type 1 as specific upply Vehicle Type 2 as specific upply Vehicle Type 1 as specific upply Vehicle Type 2 as specific upply Vehicle Type 1 as specific	fied in appendix 4 fied in appendix 4 fied in appendix 4 pe 1 pe 2 pe 3 fied in appendix 4	nr nr nr nr nr nr nr nr of P.Sum of P.Sum % % of item	12 1 (5) 1 1 1 1 1 allow allow allow 31,000,000.00 6,000,000.00	283,000.00 1,500,000.00 1,300,000.00 1,000,000.00 198,500.00 198,500.00 25,000,000.00 6,000,000.00 300,000.00 10%	3,396,000.00 1,500,000.00 6,500,000.00 1,000,000.00 198,500.0 198,500.0 25,000,000.0 6,000,000.0 300,000.0
7 118.4(1) Provide Main office fo 8 118.4(2) Provide Secondary of 9 118.4(3) Provide Office for the 10 118.6(1) Provide Housing for the 11 118.6(1) Provide Housing for the 12 118.8(1) Purchase and supply 13 118.8(2) Purchase and supply 14 118.8(3) Purchase and supply 15 118.8(4) Purchase and supply 16 118.8(5) Purchase and supply 17 118.8(6) Purchase and prof 18 118.8(7) Over heads and prof 18 118.8(7) Over heads and prof 19 118.8(10) Purchase and supply 19 118.8(11) Purchase and supply 19 118.8(11) Over heads and prof 20 118.8(11) Over heads and prof 21 118.8(12) Over heads and prof 22 118.8(13) Over heads and prof 23 118.8(13) Over heads and prof 24 118.8(13) Over heads and prof 25 118.8(13) Over heads and prof 26 118.8(13) Over heads and prof 27 118.8(13) Over heads and prof 28 118.8(13) Over heads and prof	ce for the Engineer. In office for the Engineer. In the Employer for the Employer for the Engineer Engineer Inply Vehicle Type 1-A as specification Inply Vehicle Type 2 as specification In profit for supply of vehicle Type Employer In profit for supply of vehicle Type In profit for supp	fied in appendix 4 fied in appendix 4 fied in appendix 4 pe 1 pe 2 pe 3 fied in appendix 4	nr nr nr nr nr of P.Sum of P.Sum % % %	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1,500,000.00 - 1,300,000.00 - 1,000,000.00 - 199,500.00 - 198,500.00 - 25,000,000.00 - 300,000.00 - 10% - 10%	1,500,000.00 6,500,000.00 1,000,000.00 198,500.0 198,500.0 25,000,000.0 6,000,000.0 300,000.0
118.4(2) Provide Secondary of 9 118.4(3) Provide office for the 10 118.6(1) Provide Housing for the 11 118.6(1) Provide Housing for the 11 118.8(1) Purchase and supply of Volume 1 Purchase and supply Volume 1 Purchase and profi 118.8(5) Over heads and profi Vehicles for the Empty Volume 1 Purchase and supply	ary office for the Engineer. The Employer for the Employer for the Engineer Engineer Ipply Vehicle Type 1-A as specific Ipply Vehicle Type 2 as specific Ipply Vehicle Type 3 as specific Ipply Vehicle Type 3 as specific Ipply Vehicle Type 3 as specific Iprofit for supply of vehicle Type I profit for supply of vehicle Type I profit for supply of vehicle Type Imply Vehicle Type 1 as specific Ipply Vehicle Type 2 as specific Interpolation of the Supply of Vehicle Type Interpolation of the Supply of	fied in appendix 4 fied in appendix 4 fied in appendix 4 pe 1 pe 2 pe 3 fied in appendix 4	nr nr nr nr nr of P.Sum of P.Sum of P.Sum % %	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1,300,000.00 1,000,000.00 198,500.00 198,500.00 6,000,000.00 25,000,000.00 300,000.00 10%	6,500,000.00 1,000,000.00 198,500.0 198,500.0 6,000,000.0 25,000,000.0 300,000.0 3,100,000.0
9 118.4(3) Provide office for the 10 118.6(1) Provide Housing for the 11 118.6(1) Provide Housing for the 11 118.8(1) Provide Housing for the 12 118.8(1) Purchase and supply Volume 1 118.8(5) Over heads and profice 118.8(6) Over heads and profice 118.8(7) Over heads and profice 118.8(10) Purchase and supply Volume 1 Purchase and supply Volume 1 118.8(11) Purchase and supply Volume 1 118.8(12) Over heads and profice 118.8(13) Over heads and profice 1	the Employer for the Employer for the Engineer E	fied in appendix 4 fied in appendix 4 fied in appendix 4 pe 1 pe 2 pe 3 fied in appendix 4	nr nr nr 4 P.Sum of P.Sum of P.Sum % % %	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1,000,000.00 198,500.00 198,500.00 6,000,000.00 25,000,000.00 6,000,000.00 300,000.00 10%	1,000,000.0 198,500.0 198,500.0 6,000,000.0 25,000,000.0 6,000,000.0 300,000.0 3,100,000.0
118.6(1) Provide Housing for the Interest of the Engine Purchase and supply volume 1 118.8(2) Purchase and supply volume 1 118.8(3) Purchase and supply volume 1 118.8(3) Purchase and supply volume 1 118.8(4) Purchase and supply volume 1 118.8(5) Over heads and profit 118.8(6) Over heads and profit 118.8(7) Over heads and profit 118.8(10) Purchase and supply volume 1 118.8(10) Purchase and supply volume 1 118.8(11) Over heads and profit 118.8(12) Over heads and profit 118.8(11) Over heads and profit 118.8(12) Over heads and profit 118.8(13) Over heads and profit 118.8(for the Employer for the Engineer Engineer Ipply Vehicle Type 1-A as specific Ipply Vehicle Type 1B as specific Ipply Vehicle Type 2 as specific Ipply Vehicle Type 3 as specific Ipply Vehicle Type 3 as specific Ipply Vehicle Type 3 as specific Ipposit for supply of vehicle Type Ipposit for supply of vehicle Type Ipply Vehicle Type 1 as specific Ipply Vehicle Type 1 as specific Ipply Vehicle Type 2 as specific Ipply Vehicle Type 2 as specific Ipposit for supply of vehicle Type Indiginal Type 2 as specific Ipposit for supply of vehicle Type Indiginal Type I	fied in appendix 4 fied in appendix 4 fied in appendix 4 pe 1 pe 2 pe 3 fied in appendix 4	of P.Sum of P.Sum of P.Sum of P.Sum of P.Sum % % of item	1 1 1 allow allow allow 31,000,000.00 6,000,000.00	198,500.00 198,500.00 6,000,000.00 25,000,000.00 6,000,000.00 10%	198,500.0 198,500.0 6,000,000.0 25,000,000.0 6,000,000.0 300,000.0
118.6(1) Provide Housing for the Vehicles for the Engire Purchase and supply of Volume 1 Purchase and supply Volume 1 Purchase and profice Vehicles for the Empty Volume 1 Purchase and supply Volume 1 Pur	for the Engineer Engineer Ipply Vehicle Type 1-A as specific Ipply Vehicle Type 1B as specific Ipply Vehicle Type 2 as specific Ipply Vehicle Type 3 as specific Ipply Vehicle Type 3 as specific Iprofit for supply of vehicle Type Iprofit for supply of vehicle Type Iprofit for supply of vehicle Type Imply Vehicle Type 1 as specific Ipply Vehicle Type 2 as specific Interpretation of the supply of vehicle Type Interpretatio	fied in appendix 4 fied in appendix 4 fied in appendix 4 pe 1 pe 2 pe 3 fied in appendix 4	of P.Sum P.Sum P.Sum P.Sum P.Sum M M M M M M M M M M M M M	allow allow allow allow allow 31,000,000.00 6,000,000.00	198,500.00 6,000,000.00 25,000,000.00 6,000,000.00 300,000.00 10%	198,500.0 6,000,000.0 25,000,000.0 6,000,000.0 300,000.0
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Purchase and supply of Volume 1	apply Vehicle Type 1-A as specific apply Vehicle Type 18 as specific apply Vehicle Type 2 as specific apply Vehicle Type 2 as specific apply Vehicle Type 3 as specific apply Vehicle Type 3 as specific apply of vehicle Type 4 profit for supply of vehicle Type 5 profit for supply of vehicle Type 6 profit for supply of vehicle Type 6 profit for supply 1 as specific apply Vehicle Type 2 as specific apply Vehicle Type 2 as specific apply Vehicle Type 2 as specific apply of vehicle Type 6 profit for supply of vehicle Type 6 profit for supply of vehicle Type 8 aboratory aboratory apply 1 as 1 a	fied in appendix 4 fied in appendix 4 fied in appendix 4 pe 1 pe 2 pe 3 fied in appendix 4	of P.Sum of P.Sum of P.Sum % % %	allow allow allow 31,000,000.00 6,000,000.00	25,000,000.00 6,000,000.00 300,000.00 10%	25,000,000.0 6,000,000.0 300,000.0 3,100,000.0
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13 118.8(2) Volume 1 14 118.8(3) Purchase and supply Volume 1 15 118.8(4) Purchase and supply Volume 1 16 118.8(5) Over heads and prof 17 118.8(6) Over heads and prof 18 118.8(7) Over heads and prof 19 118.8(10) Purchase and supply Volume 1 20 118.8(11) Over heads and prof 21 118.8(12) Over heads and prof 22 118.8(13) Over heads and prof 23 Over heads and prof 24 118.8(13) Over heads and prof 25 118.8(13) Over heads and prof 26 Over heads and prof 27 Over heads and prof 28 Over heads and prof 29 Over heads and prof 20 Over heads and prof 20 Over heads and prof 21 Over heads and prof 22 Over heads and prof 23 Over heads and prof 24 Over heads and prof 25 Over heads and prof 26 Over heads and prof 27 Over heads and prof 28 Over heads and prof 30 Over heads and prof 31 Over heads and prof 32 Over heads and prof 33 Over heads and prof 34 Over heads and prof 35 Over heads and prof 36 Over heads and prof 37 Over heads and prof 38 Over heads and prof 39 Over heads and prof 30 Over heads and prof 31 Over heads and prof 31 Over heads and prof 32 Over heads and prof 33 Over heads and prof 34 Over heads and prof 36 Over heads and prof 37 Over heads and prof 38 Over heads and prof 39 Over heads and prof 30 Over heads and prof 31 Over heads and prof 31 Over heads and prof 32 Over heads and prof 33 Over heads and prof 34 Over heads and prof 35 Over heads and prof 36 Over heads and prof 37 Over heads and prof 38 Over heads and prof 38 Over heads and prof 39 Over heads and prof 30	upply Vehicle Type 2 as specifie upply Vehicle Type 3 as specifie profit for supply of vehicle Type 1 profit for supply of vehicle Type 2 profit for supply of vehicle Type 2 profit for supply Vehicle Type 1 as specifie upply Vehicle Type 2 as specified profit for supply of vehicle Type 2 profit for supply of vehicle Type 3 profit for supply	fied in appendix 4 fied in appendix 4 pe 1 pe 2 pe 3 ified in appendix 4	of P.Sum of P.Sum % % % of item	allow allow 31,000,000.00 6,000,000.00	6,000,000.00 300,000.00 10%	6,000,000.0 300,000.0 3,100,000.0
14 118.8(3) Volume 1 Purchase and supply Volume 1 16 118.8(4) Over heads and prof 17 118.8(6) Over heads and prof 18 118.8(7) Over heads and prof Vehicles for the Emp 19 118.8(10) Purchase and supply Volume 1 20 118.8(11) Over heads and prof 21 118.8(12) Over heads and prof 22 118.8(13) Over heads and prof 23 118.8(14) Over heads and prof 24 118.8(15) Over heads and prof 25 118.8(16) Over heads and prof	upply Vehicle Type 3 as specified profit for supply of vehicle Type 1 profit for supply of vehicle Type 2 profit for supply of vehicle Type 1 profit for supply of vehicle Type 1 profit for supply Vehicle Type 2 profit for supply Vehicle Type 2 profit for supply of vehicle Type 2 profit for supply 2 profit for supply 2 profit for supply 3 pr	pe 1 pe 2 pe 3 ified in appendix 4	of P.Sum % % % of item	allow 31,000,000.00 6,000,000.00	300,000.00	3,100,000.0
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17 118.8(6) Over heads and prof 18 118.8(7) Over heads and prof Vehicles for the Emp 19 118.8(10) Purchase and supply Volume 1 20 118.8(11) Purchase and supply Volume 1 21 118.8(12) Over heads and prof 22 118.8(13) Over heads and prof	I profit for supply of vehicle Type I profit for supply of vehicle Type Employer I profit for supply of vehicle Type I profit for supply o	pe 2 rpe 3 ified in appendix a	% % of item	6,000,000.00	10%	
18 118.8(7) Over heads and prof Vehicles for the Emp Purchase and supply Volume 1 20 118.8(11) Purchase and supply Volume 1 21 118.8(12) Over heads and prof 22 118.8(13) Over heads and prof	I profit for supply of vehicle Type Employer upply Vehicle Type 1 as specific upply Vehicle Type 2 as specific d profit for supply of vehicle Type d profit for supply of vehicle Type aboratory dary Laboratory ment for the Main Laboratory	rpe 3 ified in appendix 4	% of item			600,000.0
Vehicles for the Employers 19 118.8(10) Purchase and supply Volume 1 20 118.8(11) Purchase and supply Volume 1 21 118.8(12) Over heads and prof 22 118.8(13) Over heads and prof	Employer upply Vehicle Type 1 as specific upply Vehicle Type 2 as specific d profit for supply of vehicle Type d profit for supply of vehicle Type aboratory dary Laboratory ment for the Main Laboratory	ified in appendix of	of item	300,000.00	10%)	
19 118.8(10) Purchase and supply Volume 1 20 118.8(11) Purchase and supply Volume 1 21 118.8(12) Over heads and process.	upply Vehicle Type 1 as specific supply Vehicle Type 2 as specific d profit for supply of vehicle Type d profit for supply of vehicle Type aboratory dary Laboratory ment for the Main Laboratory	ified in appendix			N man	30,000.0
20 118.8(11) Volume 1 Purchase and supply Volume 1 21 118.8(12) Over heads and prof 22 118.8(13) Over heads and prof	d profit for supply of vehicle Type d profit for supply of vehicle Type d profit for supply of vehicle Type aboratory dary Laboratory ment for the Main Laboratory	ified in appendix				
20 118.8(11) Purchase and supply Volume 1 21 118.8(12) Over heads and protection 22 118.8(13) Over heads and pro-	d profit for supply of vehicle Typed profit for supply of vehicle Typed aboratory dary Laboratory ment for the Main Laboratory		of .	Allow	ps	6,000,000.0
22 118.8(13) Over heads and pro	d profit for supply of vehicle Typ aboratory dary Laboratory nent for the Main Laboratory	ina 1	of item	Allow	ps	4,000,000
	aboratory dary Laboratory nent for the Main Laboratory	the i	%		10%	600,000.
23 118 9(1) Provide Main Labora	dary Laboratory	ype 2	%		10%	400,000.
20 110.0(1) 1.10.100.11011	nent for the Main Laboratory		nr	1	1,500,000.00	1,500,000.
24 118.9(2) Provide Secondary			nr	2	1,500,000.00	3,000,000.
25 118.9(3) Provide Equipment	nent for the field I aboratory		item	Allow	13,100,000.00	13,100,000.
26 118.9(4) Provide Equipment	icht for the hold Edderater,		item	Allow	8,250,000.00	8,250,000.
27 118,10(1) Provide and maintai	aintain Survey equipment		item	Allow	4,555,000.00	4,555,000
28 119(1) Longitudinal and Cr	nd Cross sectional detailing of fu	full pavement wid	th item	Allow	11,550,000.00	11,550,000

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ITE	MNO		11507	OUANITITY!	RATE	AMOUNT (Rs)
ıT	Pay	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (ICS)
+	103(1)	Management, Safety and Control and Temporary Diversion				
+		of Traffic, including provision of a general traffic				
T		management plan in accordance with Technical				
1		Specifications Clause 112.8 of the General Items.	mon	18	424,000.00	7,632,000.00
T	108.4(1)	Progress Photographs	mon	18	21,330.00	383,940.00
T	118.5(1)	Maintain Main office for the Engineer.	mon	18.	181,660.00	3,269,880.00
1	118.5(2)	Maintain Secondary office for the Engineer.	mon	(90)	100,660.00	9,059,400.00
1	118.5(3)	Maintain office for the Employer	mon	18	80,000.00	1,440,000.00
T	118.7(1)	Maintain Housing for the Employer	mon -	18- ,	80,000.00	1,440,000.00
1	118.7(1)	Maintain Housing for the Engineer	mon	18	80,000.00	1,440,000.00
1		Vehicles for the Engineer		1846		
1	118.8(7)	Maintenance of Supplied Vehicle type 1 in Item 118.8 (1)	Veh-mon	108)	175,000.00	18,900,000.0
	118.8(8)	Maintenance of Supplied Vehicle type 2 in Item 118.8 (2)	Veh-mon		150,000.00	5,400,000.00
	118.8(9)	Maintenance of Supplied Vehicle type 3 in Item 118.8 (3)	Veh-mon	V 36 18	150,000.00	5,400,000.0
T		Vehicles for the Employer		1	- 20 S-W- 20 S-W- 10 S	Fig. 2002 from Super-
1	118.8(14)	Maintenance of Supplied Vehicle type 1 in Item 118.8 (10)	Veh-mon	18	160,000.00	2,880,000.0
2	118 9(15)	Maintenance of Supplied Vehicle type 2 in Item 118.9 (11)	Veh-mor	18	160,000.00	2,880,000.0
3	118.9(5)	Maintenance of Main Laboratory	mon	18	63,330.00	1,139,940.0
4	118.9(6)	Maintenance of filed Laboratory	mon	36	96,000.00	3,456,000.0
		t at a second follows: Food specified)	mon	180	44,500.00	8,010,000.0
5	118.11(1)			72	46,660.00	3,359,520.0
6	Paragraph Control	Survey Assistant (classified skilled)	mon	18	46,660.00	839,880.0
7		Secretary	mon		-	711,000.0
8	118.11(4)	Administrator/Cleark	mon	18	39,500.00	
19	118.11(5	Office Assistants	mon	180	26,660.00	4,798,800.0
20	118.11(6	CAD Draughtsperson	mon	18	54,500.00	981,000.0
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EM		DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
ill	Pay	DESCRIPTION	UNIT	QUANTITY	IVAIL	741100111 (110)
		CLEARING AND GRUBBING				
1 2	201(1)	Clearing and grubbing	m ²	3,000	80	240,000.00
		Remove trees:				
2 2	201(2)	- Girth 600 to 1,200 mm	nr			
3 2	201(3)	- Girth 1,200 to 2,000 mm	nr			
4	201(4)	- Girth over 2000 mm	nr			
		Remove Branches :		×		-
5	201(5)	- Girth 300 to 600 mm	nr	. `		
6	201(6)	- Girth 600 to 1,200 mm	nr			
7	201(7)	- Girth over 1,200 mm	nr		*	
		Remove Stumps:				
8	201(8)	- Girth 600 to 1,200 mm	nr			
	201(9)	- Girth 1,200 to 2,000 mm	nr			
	201(10)	- Girth over 2000 mm	nr			
	2.2	REMOVAL OF STRUCTURES & OBSTRUCTIONS				
11	202(1)	Dismantle & remove brick masonry structures				
_	* * * *	(Provisional Quantity)	m ³		1 104	
12	202(2)	Dismantle & remove Random Rubble masonry structures		2		
		(Provisional Quantity)	m³	3 1	*. ***	3.0
13	202(3)	Dismantle & remove concrete structures				e t
		(Provisional Quantity)	m³			
14	202(4)	Dismantle & remove Dress stone mosonary structures				
		(Provisional Quantity)	m ³			
15	202(5)	Remove fencing (Provisional Quantity)	m			
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	ITEM	DESCRIPTION	LILIT	QUANTITY	RATE	AMOUNT (Rs)
ill	Pay	DESCRIPTION	UNIT	QUANTITY	KAIE	ANIOUNT (RS)
- 1	3.1	ROADWAY EXCAVATION				
1	301(1)	Roadway excavation , soil suitable for fill	m³			
-	301(2)	Roadway excavation, boulders (Provisional Quantity)	m ³			
	301(3)	Roadway excavation, hard rock (Provisional Quantity)	m³			
	301(4)	Roadway excavation, unsuitable soil	m³	10,000	670.00	6,700,000.00
	301(5)	Roadway excavation, sub grade replacement	m ³			•
	301(6)	Road pavement excavation	m ³	4,320	1,260.00	5,443,200.00
	301(7)	Prepare sub grade in cut areas	m ²			-
	3.2	STRUCTURE EXCAVATION AND BACKFILL				-
8	302(1)	Excavation & backfill for structures with suitable soil	m³			
	302(2)	Excavation for structures, unsuitable soil	m³	120	3,575.00	429,000.00
	302(3)	Excavation in Boulders for structures (Provisional Quantity)	m ³			-
-	302(4)	Excavation in Hard rock for structures (Provisional Quantity)	m ³			-
•	3.3	EMBANKMENT CONSTRUCTION				-
12	304(1)	Trim, level and compact roadbed	m²	5,000	102.00	510,000.00
13	304(2)	Embankment construction, Type 1	m ³			-
14	304(3)	Embankment construction, Type 2	m³			
15		Boulder packing for soft ground treatment	m³		ж.	
-	3.4	CHANNEL EXCAVATION				-
16	307(1)	Channel excavation soil suitable for fill	m³			-
17	307(2)	Channel excavation, boulders (Provisional Quantity)	m³			
18		Channel excavation, hard rock (Provisional Quantity)	m³			-
19	-	Channel excavation, unsuitable soil	m³	2,075	1,120.00	2,324,000.00
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	ITEM			OLIANTITA	RATE	AMOUNT (DA)
ill	Pay	DESCRIPTION	UNIT	QUANTITY	RAIE	AMOUNT (Rs)
	4.1	GRANULAR PAVEMENT				
1	401(1)	Sub base as compacted in position	m ³	3,000	2,110.00	6,330,000.00
2	402(1)	Provide and place stabilized gravel base of 200mm thick	m ³			•
3	402(3)	Cement	tonne			-
4	405(1)	Dense graded aggregate base	m ³	13,000	7,850.00	102,050,000.00
	4.2	RECONSTRUCTION OF EXISTING PAVEMENT				-
5	408(1)	Scarify and remove existing bitumen layer	m ²			-
	4.3	SHOULDERS				-
6	409(1)	Earthen shoulder as compacted in position	m ³	4881	1,630.00	7,956,030.00
	402(1)	Stabilized gravel shoulder as compacted in position	m ³	A CONTRACTOR OF THE CONTRACTOR		-
8	402(3)	Cement	tonne		+ 100V	
9	409(2)	Dense graded aggregate shoulders as compacted in position	m ³	1		-
10	409(3)	Trench excavtion for cross shoulder drain	m ³	*		-
11	409(4)	Porous material for cross shoulder drain	m ³			*
12	1710(1)	Geotextile for cross shoulder drain	m ²			
	4.4	PRIME COAT AND TACK COAT				
13	501(1)	Bituminous Prime Coat using MC 30 at 1 litre per m ²	m ²	61,600	240.00	14,784,000.00
14	501(2)	Extra over for MC 30	ltr		4	
15	502(1)	Bituminous Tack Coat (Cationic Emulsion grade				-
77		CRS1 at 0.3 litre/m²)	m ²	30,500	85.00	2,592,500.00
16	502(2)	Extra over for CRS 1	ltr			
	4.5	BITUMINOUS SURFACING				-
17	505.1	Bitumen Grade (80-100)	ltr			-
18	505.2	Kerosene/ diesel or other approved cutter	ltr			
19	505.3	20mm chips	m³			-
20	505.4	10mm chips	m ³			-
21	506.1	Asphalt concrete in wearing course 50mm compacted thickness	m²	61,600	2,500.00	154,000,000.00
22	506.2	Asphalt concrete in binder/ Correction course	MT			
			+			
						287,712,530.

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	ITEM			OLI ANTITY	5475	
3ill	Pay	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
1	5.1	ROADSIDE AND LEAD AWAY SURFACE DRAINS				
		Concrete:				*
1	1001(1)	Grade C 15	m ³	75	23,330.00	1,749,750.00
2	1001(2)	Grade C 20	m ³	560	25,830.00	14,464,800.00
3	1006(1)	Random rubble masonry	m³			1.7
4	1006(2)	Plastering, 1:3 cement sand mix, 16mm thick	m ²			-
		Precast concrete cover slab :				16
5	701(3)	600 X 500 X 100mm thick	m ²	500	5,830.00	2,915,000.00
6	701(4)	800 X 600 X 125mm thick	m ²	750	10,410.00	7,807,500.00
7	1002(1)	Tor Steel reinforcement	kg	26,000	274.00	7,124,000.00
		Form work				-
8	1008(1)	Formwork smooth finish	m ²	5,000	2,245.00	11,225,000.00
9	1008(2)	Formwork rough finish	m ²			-
	5.2	SUB-SURFACE DRAINS (UNDERDRAINS)				
10	702(1)	160mm dia. PVC Pipe (Type 600)	m			ii
11	702(2)	Graded aggregate maximum size 37.5mm	m ³			
12	1710(1)	Provide and place Geyotextile fillter	m ²	11	1/2	
17	5.3	UNDER GROUND PIPE DRAIN	W 5 W 10	() () () () () () () ()	5 X X ZZ	
13	704(1)	Inlet to line drain PVC pipe (Type 600) 100mm dia.	m			
	5.4	CLEANING AND RESHAPING OF EARTH DRAINS	***		**	
14	1301(1)	Clear and reshape earth drains	m			
	5.5	CLEANING AND REPAIRING OF BUILT-UP DRAINAGE	SYSTEM			
15	1302(1)	Clean, desilt & repair built-up (lined) drains.	m			
	5.6	CLEANING, DESILTING & REPAIRING OF CULVERTS				
16	1303(1)	Pipe Culverts	nr		·	4.4
17	1303(2)	Other Culvert type	nr			2
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700					1	

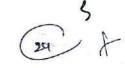
I	TEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
ill	Pay	DEGGIAN NO.				
	6.1	STRUCTURES				
		Concrete:				
1	1001(1)	Grade C 15	m³			
2	1001(3)	Grade C 25	m ³			<u> </u>
3	1001(4)	Grade C 30	m³			
4	1002(1)	Tor Steel reinforcement	kg		-	
5	1006(1)	Random rubble masonry	m ³	-		
		Formwork				
6	1008(1)	Formwork smooth finish	m²			
7	1008(2)	Formwork rough finish	m ²			
8	705(1)	100mm crushed stone back fill material	m ³			
9	705(2)	37.5mm maximum size crushed stone - filter material	m³			
10	706(1)	Weep hole, 75mm dia. PVC pipe (Type 600)	m			
11	706(2)	Rainwater outlet/Duts 160mm dia PVC pipe (Type 600)	m			
12	814(1)	Hand Rails and uprights	m			
13	814(2)	End pilasters	nr			
	6.2	CULVERTS				
14	707(1)	Laying and jointing of pipes, 600mm dia. (Single row)	m			
15	707(2)	Laying and jointing of pipes, 600mm dia. (Double row)	. m	99 1	2 2 1	
16	707(3)	Laying and jointing of pipes, 900mm dia. (Single row)	m			
17	707(8)	Sand fill	m ³	-		
18	1001(1)	Grade C 15 Concrete	m ³	312	23,330.00	7,278,960.00
19	1001(2)	Grade C 20 Concrete	m ³			
20	1001(3)	Grade C 25 Concrete	m ³	683	29,160.00	19,916,280.0
21	1001(4)	Grade C 30 Concrete	m ₃			-
22	1002(1)	Tor Steel reinforcement	kg	1,226	270.00	331,020.0
23	1002(2)	20 mm Mild Steel dowels at 500 mm c/c	kg	250	270.00	67,500.0
24	1006(1)	Random rubble masonry	m ³			-
25	1006(2)	Plastering, 1:3 cement sand mix, 16mm thick	m ²	1		
26	1008(1)		m ²	874	2,245.00	1,962,130.0
27	1008(2)		m ²	73	1,790.00	130,670.0
28	705(1)	100mm crushed stone back fill material	m	48	5,830.00	279,840.0
29	-	37.5mm maximum size crushed stone - filter material	m	12	5,830.00	69,960.
30		Weep hole, 75mm dia. PVC pipe (Type 600)	m	53	2,450.00	129,850.0
31		Depart how units	n			
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EM		DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
ill	Pay	DESCRIPTION	1			
	7.1	TOP SOILING				
1	801(1)	Furnish, Spread and compact top soil	m ²			
_	7.2	GRASSING				V2.
2	802(1)	Grass sodding	m²			
	7.3	RIP RAP PROTECTION FOR EMBANKMENT SLOPES				
3	804(1)	Dumped Rip Rap	m ³			
	7.4	PAVED SIDE WALKS				
4	806(1)	Precast concrete slab (450x450x50mm) paving	m²	1,300	3910	5,083,000.00
5	806(2)	Asphalt concrete surfacing to 50mm compacted thickness	m²			
	7.5	PRE CAST CONCRETE KERBS AND CHANNELS		_		
6	807(1)	Standard kerb	m	1,350	3320	4,482,000.00
7	807(2)	Flat /Edge Kerb	m			
8	807(3)	Drop kerb	m	100	3320	332,000.00
9	807(4)	Bridge kerb	m			-
10	808(1)	Guard stones (Road way, Culverts, Causeway and Bridges)	nr			•
2,8	7.6	ROAD MARKING				-
		Center line :	+			
11	810(1)	Continuous	m ²	2,700	2340	6,318,000.00
12	-	Intermittent	m ²			-
		Edge line :			- u u	-
13	810(3)	Continuous	m ²	1 3		
14		Pedestrian crossing	m²	250	3160	790,000.00
15	810(5)	Road Studs	nr	1,800	2040	3,672,000.0
100	7.7	ROAD SIGNS				-
		Reflective road sign :				-
16	811(1)	Single pole, sign area up to 0.5m ²	nr	120	15830	1,899,600.0
	811(2)	Double pole, sign area up to 2.0m ²	nr			-
18		Chevron warning sign	nr			
_	811(4)	Flag Type Sign	nr	* * * *		5.3.999 (0.37
	7.8	CONCRETE KERB INLETS				-
20	$\overline{}$	Kerb inlet	nr			S 59
2		Precast concrete Kerb Inlet slab (800x500x50mm thick)	m ²			•
F	7.9	KILOMETRE POSTS				-
2	2 815(1)	Provide ,Install and paint new kilometre post	nr			-
2		Reposition existing kilometer post	nr			-
-	4 815(3)	Paint existing kilometer post	nr			-
-	7.10	MAINTENANCE OF CARRIAGEWAY				-
2	5 1101(1)					
		Cold mix (MC30), 20mm & less in depth	m	2		-
2	6 1101(2)	i ill Asshell esperato				-
F	1	Cold mix (MC30), 75mm & less in depth	m	2 250	366	915,000.
12	7 1101(1)					
1		Cold mix (MC30), deeper than 75mm	m	2		
1	28 401(1)	Filling pot holes and patch repairs with gravel	п	3		

ΓEΜ		DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
Bill	Pay	DECOM NO.				
1	103(2)	Temporary by-passes for culverts, bridges and				
٠.		other strectures.	PS			
2	111(1)	Allow for provision of standards/technical literature as				
		required by the Engineer	PS			500,000.00
3	113.1(1)	Repairs to damages of existing services	PS			500,000.00
4	113.1(2)	Demolition / Rebuilding of property	PS			1,000,000.00
5	117.1(1)	Diversion, protection or removal of electrical services	PS			5,000,000.00
6	117.1(2)	Diversion, protection or removal of water services	PS			3,000,000.00
7	117.1(3)	Diversion, protection or removal of telecommunication services	PS			50,000.00
8	703(1)	Grade adjustment of existing manholes	PS			1,000,000.00
9	1103(1)	Investigations and clearance of Landmines and unexploded ordnance on roads and bridges where necessary	PS			10,000,000.00
10		Allow for Contractor's overheads and profit for above Provisional Sum items.	%		30%	6,315,000.00
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		ried to Summary				27,365,000.0

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1:LA	BOUR DAY WORKS				
Qua	ntities are Provisional				
rem	DESCRIPTION	* ANIL	QUANTITY	RATE	AMOUNT (Rs)
1	Surveyor	Hr	30	1,200.00	36,000.00
2	Survey Assistant (skilled)	Hr			-
3	Laboratory Technician (skilled)	Hr			-
4	CAD Operator	Hr			-
5	Draughtsman	Hr			
6	Foreman	Hr			•
7	Operator, Heavy equipment	Hr			•
8	Operator, Light equipment	Hr			•
9	Driver, Heavy duty vehicle	Hr.		17.5	-
10	Driver, Light duty vehicle	Hr			•
11	Mechanic	Hr			-
12	Welder	Hr			
13	Electrician	Hr			•
14	Carpenter	Hr	30	725.00	
15	Mason	. Hr	30	725:00	
16	Steel Fixer	Hr	30	725,00	
17	Semi-skilled workman	Hr	90	600.60	
18	Unskilled workman (labourer)	Hr	90	500.00	45,000.00
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	9 : SCHEDULE OF DAY WORKS RATES JIPMENT DAY WORKS				
	ities are Provisional				
TEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
1 0	Doubler cabin Pickup 4WD, diesel, above 2,000 cc	Hr			
2 L	orry, 3 to 5 tonnes	Hr .	•		
3 L	orry, 5 to 10 tonnes	Hr	4		
4 L	ow-loader, 20 to 40 tonnes	Hr			
5 5	Site dumper, over 1.0 m ³	Hr			i.
6	Tipper truck, up to 5 tonnes	Hr			.0
7	Tipper truck, 5 to 10 tonnes	Hr			
8	Tipper truck, 10 to 15 tonnes	Hr		A	
9	Bowser, water, up to 6,000 litres with Spray Bar	. Hr	20	1,300.00	26,000.00
10	Bowser, water, 6,000 to 10,000 litres with Spray Bar	Hr			
11	Bowser, bitumen, up to 10,000 litres	Hr			-
12	Bitumen distributor, up to 4,500 litres	Hr	1		-
13	Bitumen distributor, over 4,500 litres	Hr			-
14	Farm Tractor & Broom over 2m width	Hr			-
15	Farm tractor, with trailer minimum 3 tonne	Hr			-
16	Bulldozer, wheeled or Tracked up to 100 HP	Hr .			-
17	Backhoe, wheeled, 50 - 100 HP	Hr	20	3,000.00	60,000.00
18	Backhoe, wheeled, 100 - 200 HP	Hr			•
19	Backhoe, tracked, 50 - 100 HP	Hr	20	3,000.00	60,000.00
20	Backhoe, tracked, 100 - 200 HP (2.0~2.3m³)	Hr			-
21	Front-end Loader, Tracked or wheeled, 50 to 100 HP	Hr			-
22	Front-end Loader, wheeled, 100 to 200 HP (2.7~3.1m3)	Hr			
23	Motor grader, up to 100 HP	Hr			-
24	Motor grader, 120 to140HP	Hr	20	4,000.0	80,000.0
25	Steel-wheeled roller, static, 8 to 10 tonnes	Hr			
26		Hr			000.000
Equi	pment Day works Carried to forward :				200,000.0

BILL No	9.9 : SCHEDULE OF DAY WORKS RATES				
9.2 : EQ	UIPMENT DAY WORKS		-		· · · · · · · · · · · · · · · · · · ·
All Quan	atities are Provisional				
ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	COST (Rs)
Equipm	ent Day works Brought Forward :				200,000.00
27	Steel-wheeled roller, vibratory, 10 tonnes	Hr			
28	Pneumatic-tyred roller, 8 to 10 tonnes	Hr			
29	Tandem roller, 6 to 8 tonnes, Vibrating	Hr			
30	Hand roller, vibratory, 1/2 - 1 tonne	Hr			
31	Plate compactor, vibratory, over 90 kg	Hr			
32	Rammer, mechanical, over 60 kg	Hr			
33	Mobile Crane 25 tonnes	Hr	20	15,000.00	300,000.00
34	Asphalt mixing plant, over 60 tonnes/hr	Hr			· -
35	Crushing and screening plant, over 80 tonnes/hr	Hr		W.	2
36	Asphalt paver, wheeled or Tracked 60 tonnes/hr	Hr	A	A 5.8 94 +	* * 1 * * * * * * * * * * * * * * * * *
37	Asphalt paver, wheeled or Tracked over 80 tonnes/hr	Hr			
38	Chip spreader, self-propelled	Hr	1	9	
39	Drilling rig, crawler, over 75 mm diameter bit	Hr			-
40	Rock drill, hand-held	Hr			-
41	Air compressor with hoses and tools, 250 to 600 cfm	Hr			
42	Water pump with hoses, 50 to 100 mm outlet	Hr	10	950.00	9,500.00
43	Concrete mixer, 0.25 to 0.50 cu.m.	Ĥr			-
44	Concrete mixer, over 0.50 cu.m.	·· Hr	20	1,000.00	20,000.00
45		Hr	100	5,000.00	500,000.00
46	Generator, 10 to 50 KVA	Hr			-
47	Welding set, electric, 300 - 400 amp	Hr	10	350.00	3,500.00
48	Poker Vibrator, petrol driven Ordinary Truck (Up to 3 Ton)				-
	Ordinary Hook (op to 5 row)				
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THE PRICED BILL OF QUANTITIES AND SCHEDULES

PRP 1 / C1A - 2

Improvement and Rehabilitation of Priority Road Project

Contract Package No - RDA/RNIP/PRP1/C1

Bopale Junction - Kiriibbanara - Udamauara Section from 0.00km (Bopale Junction) to 8.50km (Udamauara) Length of the Section 8.50km

BILL OF QUANTITIES

	SUMMARY	
No.	Description	AMOUNT (Sri Lanka Rupees)
1	Preliminary and General 1 A	
	Preliminary and General 1 B	
2	Site Clearing	3,136,800.00
3	Earthworks	93,120,320.00
4	Road Pavement	283,801,250.00
5	Drainage	23,124,400.00
6	Bridges and Culverts	27,891,200.00
7	Incidentals	28,526,850.00
8	Provisional Sums	27,365,000.00
	Day works - Labour	200,250.00
9	Day works -Equipment	1,087,000.00
7504	Day works - Materials	
Sub - Tota		488,253,070.00

Provisional sum for Price Escalation 8%	39,060,245.60
Contingencies at 10% of Sub - Total 1	48,825,307.00
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the contract of the contract o	e e e e e

TENDER PR	RICE				. 576,1	38,622.60
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			-			
Value added	I tax at 12% of the Ten	der Price			69,1	36,634.71
Bidder:	Signature					
	Name			* * · · · · · · · · · · · · ·		
	Address	*	X	1		
Witness 1	Signature		11 X	n .		
	Name	\.	187		W * * * * * * * * * * * * * * * * * * *	
	Address	/	, , ,	- E		e = ===
Witness 2	Signature					
	Name					
1	Address					

EM	1	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
ill	Pay	DESCRIPTION	ONI	Q07.11.11.1		
*-		CLEARING AND GRUBBING				
1	201(1)	Clearing and grubbing	m ²	39,210	80.00	3,136,800.00
1		Remove trees :				
2	201(2)	- Girth 600 to 1,200 mm	nr			
3	201(3)	- Girth 1,200 to 2,000 mm	nr			
4	201(4)	- Girth over 2000 mm	nr			-
		Remove Branches :				
5	201(5)	- Girth 300 to 600 mm	nr			
6	201(6)	- Girth 600 to 1,200 mm	nr		· · · · · · · · · · · · · · · · · · ·	
	201(7)	- Girth over 1,200 mm	- nr			
		Remove Stumps :				
8	201(8)	- Girth 600 to 1,200 mm	nr			1.
	201(9)	- Girth 1,200 to 2,000 mm	nr			i e e e,
(19	201(10)	- Girth over 2000 mm	nr	45.0	2	
	2.2	REMOVAL OF STRUCTURES & OBSTRUCTIONS		* (*)	1 4 4 4 7 1 4	
11	202(1)	Dismantle & remove brick masonry structures				
		(Provisional Quantity)	m ³		,	
12	202(2)	Dismantle & remove Random Rubble masonry structures				
		(Provisional Quantity)	m ³			1000
13	202(3)	Dismantle & remove concrete structures				
	1+	(Provisional Quantity)	m ³			
14	202(4)	Dismantle & remove Dress stone mosonary structures				
		(Provisional Quantity)	m³			
15	202(5)	Remove fencing (Provisional Quantity)	m			
•• •	1			1		
160						
••••						
		7				
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				-		2.34
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1	1					

EM		DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
ill	Pay	DESCRIPTION	.OINII		B0000000000000000000000000000000000000	V
4,		CLEARING AND GRUBBING				•
1	201(1)	Clearing and grubbing	m²	39,210	80.00	3,136,800.00
1	P.40	Remove trees :	VW042.7 = 12			
2	201(2)	- Girth 600 to 1,200 mm	nr			
3	201(3)	- Girth 1,200 to 2,000 mm	nr		10	
4	201(4)	- Girth over 2000 mm	nr			
		Remove Branches :				
5	201(5)	- Girth 300 to 600 mm	nr			
6	201(6)	- Girth 600 to 1,200 mm	. nr			
7	201(7)	- Girth over 1,200 mm	- nr			
. "		Remove Stumps :				
8	201(8)	- Girth 600 to 1,200 mm	nr			
9	201(9)	- Girth 1,200 to 2,000 mm	nr			
10	201(10)	- Girth over 2000 mm	nr		0 2	
	2.2	REMOVAL OF STRUCTURES & OBSTRUCTIONS	er er er	· ota n	1 - + - + - +	. N. c
.1.1	202(1)	Dismantle & remove brick masonry structures	- 2	1	1 11 1 3 3 4	
		(Provisional Quantity)	m ³		34	
12	202(2)	Dismantle & remove Random Rubble masonry structures				
		(Provisional Quantity)	m ³]
	202(3)	Dismantle & remove concrete structures				
*		(Provisional Quantily)	m ³			
14	202(4)	Dismantle & remove Dress stone mosonary structures				
	-	(Provisional Quantity)	m ³			
15	202(5)	Remove fencing (Provisional Quantity)	m			
** 3	1					
•••	1		:		-1 -14 (16) (14)	
		and the second of the second				
	1					
					3 6	
			.			19. (10.)
				**** *** **** ***** ****** ******		
Sagar						
		DECEMBER OF STATES OF STAT				
B	ill No.2 Ca	rried to Summary				3,136,8

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	ITEM	DECODICTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
in	Pay	DESCRIPTION	ONL	QO/ UTILITY		V.17
_	3.1	ROADWAY EXCAVATION	٠.,			
	301(1)	Roadway excavation , soil suitable for fill	m³		(1) (4) (4) (4) (4)	
2	301(2)	Roadway excavation, boulders (Provisional Quantity)	m ³			
3	301(3)	Roadway excavation, hard rock (Provisional Quantity)	m³	20 /	4,160.00	83,200.00
4	301(4)	Roadway excavation, unsuitable soil	m³	7,300 /	670.00	4,891,000.00
5	301(5)	Roadway excavation, sub grade replacement	m³			
5	301(6)	Road pavement excavation	m ³	240 /	1,250.00	300,000.00
7	301(7)	Prepare sub grade in cut areas	m²		=	1
-	3.2	STRUCTURE EXCAVATION AND BACKFILL				
8	302(1)	Excavation & backfill for structures with suitable soil	m ³	324 /	2,080.00	673,920.00
9	302(2)	Excavation for structures, unsuitable soil	m³	216 /	3,575.00	772,200.00
10	302(3)	Excavation in Boulders for structures (Provisional Quantity)	m ³		5 1	
-	302(4)	Excavation in Hard rock for structures (Provisional Quantity)	m ³		-	4.
	3.3	EMBANKMENT CONSTRUCTION	(3)	2 3	ita k	
12	304(1)	Trim, level and compact roadbed	m²	5,000	60.00	300,000.00
	304(2)	Embankment construction, Type 1	m ³	53,530 /	1,500.00	80,295,000.00
14		Embankment construction, Type 2	m³			
15		Boulder packing for soft ground treatment	m³,			
	3.4	CHANNEL EXCAVATION				
16	307(1).	Channel excavation soil suitable for fill	m ³	2,064 /	1,125.00	2,322,000.0
111/5/75	307(2)	Channel excavation, boulders (Provisional Quantity)	m ³			
18		Channel excavation, hard rock (Provisional Quantity)	m³			
19		Channel excavation, unsuitable soil	m ³	3,096	1,125.00	3,483,000.0
		Tan Talanti has madical tent a tract				
					7	
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9.8	S.*.		1			
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	+		30.00	1		
-		rried to Summary :				93,120,320

(31)

IT	EM	OFFICERION	UNIT	QUANTITY	R	ATE	AMOUNT (Rs)
T	Pay	DESCRIPTION	OINII		100		3000.0000
4	.1``	GRANULAR PAVEMENT					
4	01(1)	Sub base as compacted in position	m³-				in the state of the same
1	02(1)	Provide and place stabilized gravel base of 200mm thick	m³				
-	02(3)	Cement	tonne				
	05(1)	Dense graded aggregate base	m³	12,900 -	7	,400.00	95,460,000.00
1	4.2	RECONSTRUCTION OF EXISTING PAVEMENT		9			
	108(1)	Scarify and remove existing bitumen layer	m²			1	
	4.3	SHOULDERS					
1	409(1)	Earthen shoulder as compacted in position	m³	5150	1	.600.00	8,240,000.00
7	402(1)	Stabilized gravel shoulder as compacted in position	m³				
	402(3)	Cement	tonne				
9	409(2)	Dense graded aggregate shoulders as compacted in position	m³				
0	409(3)	Trench excavtion for cross shoulder drain	m ³				
1	409(4)	Porous material for cross shoulder drain	. m ₃				
12	1710(1)	Geotextile for cross shoulder drain	m²	*	Ļ		
	4.4	PRIME COAT AND TACK COAT	i be	a fact that	-		3 3/3 - 4/
13	501(1)	Bituminous Prime Coat using MC 30 at 1 litre per m ²	m²	59,500 -	1	241.00	14,339,500.00
14	501(2)	Extra over for MC 30	ltr				
15	502(1)	Bituminous Tack Coat (Cationic Emulsion grade					
		CRS1 at 0.3 litre/m²)	m ²	29,750	1	128.00	3,808,000.0
16	502(2)	Extra over for CRS 1	- Itr		1_		
	4.5	BITUMINOUS SURFACING	_	-	_		
17	505.1	Bitumen Grade (80-100)	ltr		_		
18	505.2	Kerosene/ diesel or other approved cutter	- Itr		_	···········	
19	505.3	20mm chips	m		-		
20	505.4	10mm chips	m				
21	506.1	Asphalt concrete in wearing course 50mm compacted thickness	m	65,747		2,250.00	
22	506.2	Asphalt concrete in binder/ Correction course	M	758	1	18,500.00	14,023,000.0
					-		
[
1						7	• • •
				·			
						10	
1	1						283,801,250

1	TEM	DECCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
ıT	Pay	DESCRIPTION	J. 11.			
		ROADSIDE AND LEAD AWAY SURFACE DRAINS	4 4.			
T		Concrete : Grade C 15	m³	64 🗸	23,300.00	1,491,200.00
	1001(1)		m ³	304	25,800.00	7,843,200.00
	1001(2)	Grade C 20	m³			,
	1006(1)	Random rubble masonry	m²			
4	1006(2)	Plastering, 1:3 cement sand mix, 16mm thick				
		Precast concrete cover slab:	m²			
5	701(3)	600 X 500 X 100mm thick	m ²	320	12,000.00	3,840,000.00
6	701(4)	800 X 600 X 125mm thick				5,225,000.00
7	1002(1)	Tor Steel reinforcement	kg	19,000 /	275.00	0,220,000.00
8	1008(1)	Form work Formwork smooth finish	m²	2,100	2,250.00	4,725,000.00
9	1008(2)	Formwork rough finish	m²			
_	5.2	SUB-SURFACE DRAINS (UNDERDRAINS)				
10		160mm dia. PVC Pipe (Type 600)	m	1 1		0.04
11		Graded aggregate maximum size 37.5mm	m³	1.1.	1 1 1	
12		Provide and place Geyotextile fillter	m²			
12	5.3	UNDER GROUND PIPE DRAIN	10			
4	3 704(1)	Inlet to line drain PVC pipe (Type 600) 100mm dia.	···m			
1.	5.4	CLEANING AND RESHAPING OF EARTH DRAINS				
-			· m			
14	5.5	CLEANING AND REPAIRING OF BUILT-UP DRAINAGES	YSTEM		ii.	
		ti di dicion	. m			
73	5 1302(1)	CLEANING, DESILTING & REPAIRING OF CULVERTS	-			
-			, n	r	9	
1	6 1303(1) 7 1303(2)		n	r		
-						
1						4 4

33)

	ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
11	Pay	DESCINI HOW				
	-6.1.	STRUCTURES				
T		Concrete:				
	1001(1)	Grade C 15	m ³			
	1001(3)	Grade C 25	m ³			
	1001(4)	Grade C 30	m ³			85 (94) (95
1	1002(1)	Tor Steel reinforcement	kg			
5	1006(1)	Random rubble masonry	m³			
		Formwork				15.172 1 140.64 4
5	1008(1)	Formwork smooth finish	m²			
7	1008(2)	Formwork rough finish	· m²			,
8	705(1)	100mm crushed stone back fill material	m ³			
9	705(2)	37.5mm maximum size crushed stone - filter material	m³			
10	706(1)	Weep hole, 75mm dia. PVC pipe (Type 600)	- m			
11	706(2)	Rainwater outlet/Duts 160mm dia PVC pipe (Type 600)	m			
12	814(1)	Hand Rails and uprights	m			
13	814(2)	End pilasters	nr	-		The search said
	6.2	CULVERTS	· e • . •	100	1 1 10 10	
14	707(1)	Laying and jointing of pipes, 600mm dia. (Single row)	m			
15		Laying and jointing of pipes, 600mm dia. (Double row)	m			
16		Laying and jointing of pipes, 900mm dia. (Single row)	m			
17		Sand fill	m ³	189 -	5,900.00	1,115,100.00
18			m ³	47	23,300.00	1,095,100.00
19			m ³			
20			"m³	414	29,000.00	12,006,000.00
21	me and other		m ³	_		(4)
22			kg	35,000	275.00	9,625,000.0
23			kg			
24	4		m			
2		in a second seco	m	2	1	
			m	1,800	2,250.0	4,050,000.0
26			m	A 10 M 10		
2			- m			
2			n n			
2	1		r	I DE MEN TO SECOND	100	34 7 7 1 1 1 1 1 1
	706(1			nr .		
3	707(10	Supply Lay and joint 900X900X1650mm Precast box units		•		X
	x		1.			10 Mars 10 Mar

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	10.7 .	1	ENTAL WORKS	-	OLIANT	ITV	RATE	AMOUNT (Rs)
III	Pay		DESCRIPTION	UNIT	QUANT	11.7	MIC	Amoon (10)
_	7.1	_	OP SOILING					
-		_	urnish, Spread and compact top soil	m²				
_	7.2	-	RASSING					
		-	Srass sodding	m²	16,36	55 -	670.00	10,964,550.00
2 8	302(1		RIP RAP PROTECTION FOR EMBANKMENT SLOPES					+
_	7.3			m ³				
3 8	804(1	,	Dumped Rip Rap					
	7.4		PAVED SIDE WALKS	m ²	48	0/	3,920.00	1,881,600.00
4	806(1		Precast concrete slab (450x450x50mm) paving	m²			••••	
5	806(2		Asphalt concrete surfacing to 50mm compacted thickness	- 111		سلت		
_	7.5		PRE CAST CONCRETE KERBS AND CHANNELS	m	50	10 1	3,325.00	1,662,500.00
6	807	7(1)	Standard kerb					
7	-80	7(2)	Flat /Edge Kerb	m			•.•	
8	80	7(3)	Drop kerb					
9	80		Bridge kerb	m			4,160.00	3,744,000.00
10	80	8(1)	Guard stones (Road way, Culverts, Causeway and Bridges)	, ut	9	00 /	4,100.00	.0,1 11,000.00
	7.6	, 6	ROAD MARKING	- d	7 3	. # 4		
	30.	(125 8)	Center line :				0.040.00	1 872 000 00
11	810	(1)	Continuous	m²	27	00	2,340.00	1,872,000.00
12	810	(2)	Intermittent	m ²				
	-		Edge line :				·	
13	810)(3)	Continuous	, m²	12		* 1, ********	
14			Pedestrian crossing	m²		246	3,200.00	
15			Road Studs	nr	11	,500 /	2,050.00	3,075,000.00
-	7.							
-	T		Reflective road sign :					<u> </u>
11	6 81	1/1)	Single pole, sign area up to 0.5m ²	n	r	190	16,000.00	3,040,000.0
-		1(2)	Double pole, sign area up to 2.0m ²	n	cerl =	es energe gan se	- +++1	e e e e e e e e e e e e e e e e e e e
	8 81		Chevron warning sign	Г	nr -			
		1(4)	Flag Type Sign	۱ .	וו	· ·		
1		7.8	CONCRETE KERB INLETS					
1		13(1)	Kerb inlet		or .			
			Precast concrete Kerb Inlet slab (800x500x50mm thick)		m²			
H	_	01(2) 7.9	KILOMETRE POSTS					
-			Provide ,Install and paint new kilometre post		ut			
-		15(1)	Reposition existing kilometer post		UL			
1	-	15(2)	Paint existing kilometer post		Dt.			
-		315(3)			4			*15
-	_	7.10	- in Apphali concrete			-,		
	25	1101(1	Cold mix (MC30), 20mm & less in depth		m ²			
	.						70 10 00 000 000	
	26	1101(2			m²			
		**	Cold mix (MC30), 75mm & less in depth Filling pot holes and patch repairs with Asphalt concrete					
	27	1101(1			m²	500	3,000	0.00 1,500,000
			Cold mix (MC30), deeper than 75mm		m³			
10	28	401(1)	Filling pot holes and patch repairs with gravel					35 28,526,85

				QUANTITY	RATE	AMOUNT (Rs)
M	15 *	DESCRIPTION	TINU	QUANTIT	IVALE	, (1.0)
4	Pay	Temporary by-passes for culverts, bridges and				
		other strectures.	PS	2 / 10		
	111(1)	Allow for provision of standards/technical literature as	PS			500,000.00
		required by the Engineer				500,000.00
	113.1(1)	Repairs to damages of existing services	PS		61	1,000,000.00
	113.1(2)	Demolition / Rebuilding of property	PS	ļ		5,000,000.00
1	117.1(1)	Diversion, protection or removal of electrical services	PS			
5	117.1(2)	Diversion, protection or removal of water services	PS		40	3,000,000.0
7	117.1(3)	Diversion, protection or removal of telecommunication services	PS			50,000.0
8	703(1)	Grade adjustment of existing manholes	PS			1,000,000.0
9	1103(1)	Investigations and clearance of Landmines and unexploded ordnance on roads and bridges where necessary	PS			10,000,000.0
		Allow for Contractor's overheads and profit for above Provisional	%	21,050,000	30%	6,315,000.0
10		Sum items.	70	21,050,000		0,0.0,000.0
			1.			5 %
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		The same of the sa			* * .	
77.5		Fair Control of the C				27,365,000

	OUR DAY WORKS					
Quan	tities are Provisional DESCRIPTION	UN	пт	QUANTITY	RATE	AMOUNT (Rs)
		H	lr	30	1,200.00	36,000.00
	Surveyor	ŀ	łr			
	Survey Assistant (skilled) Laboratory Technician (skilled)	1	ir			
			dr			104 41 05-5415
- 1	CAD Operator	1	-tr			
	Draughtsman	1	Hr			-
	Foreman		Hr			***
7	Operator, Heavy equipment		Hr			
8	Operator, Light equipment		Hr			
9	Driver, Heavy duly vehicle		Hr			
10	Driver, Light duty vehicle		Hr	2000	als	
11	Mechanic		Hr			
12	Welder .	-	Hr		1	1.5
13	Electrician		Hr	30 /	725.00	21,750.00
14	Carpenler	-	Hr	30 ~	725.00	
15	Mason	-	Hr	30/	-725.00	21,750.00
16	Steel Fixer	**	Hr	90 _/	600.0	0 54,000.00
17	Semi-skilled workman		Hr	90 /	500.0	
18	Unskilled workman (labourer)					
					-	+
		-				
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Quar	ntities	are Provisional .	T		-1-	·		
EM		DESCRIPTION	UNIT	QUANTIT	ry F	ATE	AMO	UNT (Rs)
1	Doub	oler cabin Pickup 4WD, diesel, above 2,000 cc	Hr					
2	Lorry	v, 3 to 5 tonnes	Hr			0		
3	-	y, 5 to 10 tonnes	Hr Hr					
4	Low	-loader, 20 to 40 tonnes					-	7
5	Site	dumper, over 1.0 m ³	Hr		-	•		
6	Tip	per truck, up to 5 tonnes	Hr				-	- 0
7	Tip	per truck, 5 to 10 tonnes	Hr					
8	Tip	oper truck, 10 to 15 tonnes	Hr		5			
9	Во	wser, water, up to 6,000 litres with Spray Bar	Hr	20	1	1,300.00)	26,000.00
10	Bo	wser, water, 6,000 to 10,000 litres with Spray Bar	Hr					
11		owser, bitumen, up to 10,000 litres	Hr Hr	* == :				
		itumen distributor, up to 4,500 litres	Hr		3 .			
1		arm Tractor & Broom over 2m width	Hr	- 11.77		-		
		Farm tractor, with trailer minimum 3 tonne	Hr					
	16	Bulldozer, wheeled or Tracked up to 100 HP	. Hr				_	
	17	Backhoe, wheeled, 50 - 100 HP	Hr Hr		20 /	3,000	- 1	60,000.0
		Backhoe, wheeled, 100 - 200 HP	Hr		20 /	3,000	0.00	60,000.0
-		Backhoe, tracked, 50 - 100 HP Backhoe, tracked, 100 - 200 HP (2.0~2.3m³)	H	r				
	20	Front-end Loader, Tracked or wheeled, 50 to 100 HP	н	r	E 0.	14: 1		
-	22	Front-end Loader, wheeled, 100 to 200 HP (2.7~3.1m3)	н	Ir				(- : : : : : : : : : : : : : : : : :
-	23	Motor grader, up to 100 HP	F	٩r .	27			
	24	Motor grader, 120 to140HP			20	4.0	00.00	80,000
	25	Steel-wheeled roller, static, 8 to 10 tonnes		Hr 	.			
	25	Steel-wheeled roller, vibratory, 4 to 8 tonnes		Hr				226,00



EQ	UIPMENT DAY WORKS				A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	ntities are Provisional				
EM	DESCRIPTION	UNIT	QUANTITY	RATE	COST (Rs)
	nent Day works Brought Forward :				226,000.00
	Steel-wheeled roller, vibratory, 10 tonnes	Hr			
27 28	Pneumatic-tyred roller, 8 to 10 tonnes	Hr			
29	Tandem roller, 6 to 8 tonnes, Vibrating	Hr			
30	Hand roller, vibratory, 1/2 - 1 tonne	Hr			
31	Plate compactor, vibratory, over 90 kg	Hr.			
32	Rammer, mechanical, over 60 kg	Hr		a ty	
		Hr _.	20 /	15,000.00	300,000.00
33	Mobile Crane 25 tonnes	Hr			
34	Asphalt mixing plant, over 60 tonnes/hr	Hr		# F _ F = 8 '. F '.	
35	Crushing and screening plant, over 80 tonnes/hr	Hr			
36	Aspiral pavor, move	Hr			
37	Asphalt paver, wheeled or Tracked over 80 tonnes/hr				1
38	Chip spreader, self-propelled	Hr			
39	Drilling rig, crawler, over 75 mm diameter bit	Hr.			
40	Rock drill, hand-held				
4	Air compressor with hoses and tools, 250 to 600 cfm	Hr			47,500.0
. 4		Hr	50 /	950.0	0
4		" Hr			40,000
4		Hr	10	1,000.0	
4	5 Generator, 10 to 50 KVA	Hr	100 -	5,000.0	500,000.0
	Generator, 10 to 30 Km	Hr			
	veiding set, electric, over	H	10	350.	3,500.
	Poker Vibrator, petrol driven				
-			-	F	
1					
				-	
			13		

7					
	Equipment Day works Carried to Summary :				1,087,00

THE PRICED BILL OF QUANTITIES AND SCHEDULES

PRP 1 / C1A - 3

Summary of Bill of Quantities

		1977		
Bill No.100 Preliminaries & Genaral			=	141,430,376.15
Bill No.200 Site Clearing			=	8,371,536.00
Bill No.300 Earth Works			=	259,878,822.40
Bill No.400 Sub bases, bases and Shuolder	rs		=	281,703,850.00
Bill No 500 Surfacing			=	515,917,864.00
Bill No 700 Drainage Construction			=	109,704,560.00
Bill No 800 Incidental Construction			=	122,090,540.00
Bill No 1000 Bridges and other Structures			=	798,985,904.00
Day Works			=	28,865,700.00
Total B.O.Q Amount		50 S	=	2,266,949,152.55
	Case Marin Company			
Direct Cost			=	¥
Allow for Physical contingencies10%			=	226,694,915.26
Allow for Price escalation 8%	¥3		=	181,355,932.20
Contract Amount			=	2,675,000,000.0
12% VAT			=	321,000,000.00
Total Estimated cost /(Rs.)	2 96		Ξ	2,996,000,000.01

185 F 21/12 - 0010

BILL NO 100 : PRELIMINARY AND GENARAL

Item No.	HSR/ Rate code	SSCM No / Pay Item No	Description	Unit	Qty.	Rate/(Rs.)	Amount/(Rs.)
			Traffic Safety & Control				
100/1	A.101	103 (1)	Allow for traffic control & safty measures during works with temporary sign boards, barricading, lighting & watching etc.	Mths	12.0	600,000.00	7,200,000.00
			Mobilization and De-Mobilization of				
			Contractor			1	
100/2			Mobilization of Contractor's facilities and Plant / Equipment	L.S.	1.00	7,571,576.15	7,571,576.15
100/3			De-Mobilization of Contractor's facilities & Plant / Equipment	L.S.	1.00	1,500,000.00	1,500,000.00
			Setting out, Cross section Survey and				
~ `			Drawings (6 # Reversed	K.m	8.0	800,000.00	6,400,000.0
100/4	A.102	117(1)	Cross section Detailing of full Pavement Width	N.III	0.0	000,000.00	0,100,000.0
			Project Sign Boards				
100/5	SSR- 01	118(1)	Making & erecting project name board 1.8	Nos	2.00	78,000.00	156,000.0
100/5	3314-01	110(1)	Provide and maintain Project Plaques	Nos	2.00	400,000.00	800,000.0
100/0		-	Maintenance of Road during			H H 16	
æ			construction			045 000 00	20,000,000
100/7	SSR- 02	2	Allow for maintenance of existing road, free of pot holes including right of way as directed by the Engineer	km.mth	96.0	215,300.00	20,668,800.0
			Facilities for the Engineer and Staff				
			Provide Office for Engineer	No.	1.0	2,500,000.00	2,500,000.0
100/8	C F variety	1	Provide Furniture for Engineer's office	L.S.		1,800,000.00	1,800,000.0
100/9	and and a	1.	Provide Accommodation	No.	1.0	2,000,000.00	2,000,000.
100/1			Provide Furniture, Fittings, and equipment		T	1,100,000.00	
100/1	1		Provide Laboratory Equipment	L.S.		11,400,000.00	
100/1		3	Provide Stationary for the Engineer — (Provisional)	P.S.		289,000.00	289,000.0
100/1	A.109	9	Provide and Maintain Survey Equipment	L.S.		4,800,000.00	4,800,000.0
100/1	15 A.110	,	Maintenance of the Engineer's office,	Month	12.0	400,000.00	4,800,000
100/			Survey Assistants	p. wk	96.0	15,000.00	
100/	The state of the s		Laboratory assistant (Classified skilled)	p, wk	96.0.	15,000.00	and the same of the same of
100/			Administrator / Clerk	p. wk	96.0	9,000.00	864,000
			Office assistant	p. wk	96.0	9,000.0	864,000
100/	100		Draughtsman	p. wk	96.0		
100/	20		Draughtsman				

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BILL NO 100 : PRELIMINARY AND GENARAL

Item No.	HSR/ Rate code	SSCM No I Pay Item No	Description	Unit	Qty.		Amount/(Rs.)
100/21		- ,	Provide & maintain new vehicle Type 1 (Car)	V.month	12.0	650,000.00	7,800,000.00
100/22			Provide & maintain initially new vehicle Type 2 (Cab 01 No)	V.month	12.0	£ 650,000.00	7,800,000.00
100/23	A.103	P	Facilities for the Employer and Staff Provide Office for Employer	No.	1.0	1,500,000.00	1,500,000.00
100/24	A.104		Provide Furniture for Employer's office	L.S.		1,000,000.00	1,000,000.00
100/25	70.104	_	Provide Accommodation	No.	1.0	1,500,000:00	1,500,000.00
100/25			Provide Furniture, Fittings, and equipment for Accommodation	L.S.		1,000,000.00	1,000,000.00
100/27	A.108		Provide Stationary for the Employer (Provisional)	P.S.		289,000.00	289,000.00
100/28	A.110	ھي	Maintenance of the Employer's office & Accommodation including Furniture,	Month	12.0	250,000.00	3,000,000.00
			Fittings & Equipment etc. Administrator / Clerk	p. wk	96.00	10,000.00	960,000.00
100/29			Office assistant	p. wk	96.0	10,000.00	960,000.00
100/30			Provide & maintain new vehicle Type 1 (Car)	V.month	12.0	÷ 650,000.00	7,800,000.00
100/32		*	Provide Office Equipments for the	P.S.	1.0	1,000,000.00	1,000,000.00
00/33			Employer (Provisional) Detailed Design	P.S.	1.0	00.000,000	8,000,000.00
100/34			Services Allow for Shifting of Services & Utilities.	P.S.	1.0	500,000.00	500,000.00
			Contract Insurances and Securities	1	4.00	5,000,000.00	5,000,000.00
100/35	A.119	119(1	Provide all necessary Insurance	L.S.	1.00	100	The second second
100/36	1		Provide all necessary bonds and securities MINARY AND GENERAL - TOTAL CARRIED	L.S.	1.00		14,000,000.00

BILL NO : 200

SITE CLEARING

Item No.	HSR/ Rate code	SSCM No / Pay Item No	Description	Unit	Qty.		Rate/(Rs.)	Amount/(Rs.)
201' 201/1	RA.01	201(1)	Clearing and Grubbing Clearing and Grubbing inclusive of backfilling holes and trenches caused by removal of stumps.	Sq.m.	124,800.0	124,800.0	55.00	6,864,000.00
201/2	SSR-03	201(2)	Removal of trees, girth greater than or equal to 300 and less than 600 mm	No.	36.0	36.0	876.00	31,536.00
201/3	SSR-04	201(3)	Removal of trees, girth greater than or equal to 600 and less than 1200 mm	No.	16,0	16.0	2,640.00	42,240.00
201/4	SSR-05	201(4)	Removal of trees, girth greater than or equal to 1200 and less than 2000 mm	No.	8.0	8,0	8,760.00	70,080.00
201/5	SSR-06	201(5)	Removal of trees, girth greater than 2000 mm.	No.	3.0	3.0	13,200.00	39,600.00
201/6	SSR-07	1		No.	10.0	10.0	8,760.00	87,600.00
202			Removal of structures and obstruction		100000000000000000000000000000000000000		4.700.00	
202/1		202(1)	Dismantle the Existing brick masonry structures &	Cu.m.	48.0	48.0	4,760.00	228,480.00
202/2		202(2)	culvert pipes Dismantle the Concrete structures	Cu.m.	112.0	112.0	9,000.00	1,008,000.00
ZGW TIN		12.5	SITE CLEARING - TOTAL CARRIED TO GRA	ND SUM	MARY	77/00		8,371,536.00

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Item No.		SSCM No / Pay Item No	Description	Unit	Qty.	Rate/(Rs.)	Amount/(Rs.)
301 301/1	RA.02	301(4)	Roadway Excavation Roadway Excavation in unclassified soil, excavated material is suitable for constrction	Cu.m.	16,128.00	732.00	11,805,696.00
301/2	RA.03	301(11)	works Roadway excavation in classified soil, excavated material is unsuitable for constrction works.	Çu.m.	10,080.00	1,250.00	12,600,000.00
301/3	RA.04	301(4a)	Roadway Excavation in Classified Soft Rock	Cu.m.	3,225.60	2,400.00	7,741,440.00
301/4	RA.05	301(10)	Roadway Excavation in classified hard rock	Cu.m.	806.40	4,600.00	3,709,440.00
301/5	RA.04	301 (13)	Roadway Pavement Excavation.	Cu.m.	1,612.80	1,320.00	2,128,896.00
301/6	RA.06	301(14)	Roadway excavation in marshy materials	Cu.m.	2,822.40	1,440.00	4,064,256.00
301/7	EW1-009	500000000000000000000000000000000000000	Preparation of subgrade	Sq.m.	55,500.00	144.00	7,992,000.00
301/8	RA.07	301A(1)	Channel Excavation Drain excavation in unclassified soil, excavated material is suitable for constrction works.	Cu.m.	2,995.20	1,188.00	0.00 3,558,297.60
301/9	RA.08	301A(4)	Drain excavation in classified hard rock.	Cu.m.	1,123.20	4,440.00	4,987,008.00
301/10	RA.09	301A(5)	Drain excavation in classified soil, excavated material is unsuitable for constrction works.	Cu.m.	1,497.60	708.00	1,060,300.80
304 304/1	RA.16	304(1)	Embankment construction Embankment construction using type 1 material from roadway excavation, and compacted in position.	Cu.m.	16,128.00	1,800.00	
304/2	RA.17	304(2)a	Embankment construction using borrow material (type 1) and compacted in position	Cu.m.	34,258.56	1,920.00	65,776,435.20
304/3	RA.17	304(2)5	The state of the s	Cu,m,	51,387.84	1,920,00	-1
304/4	EW-01	0 304(3)	Trimming leveling and compaction of original ground	Sq.m.	84,500.00	80,00	
			EARTHWORKS - TOTAL CARRIED TO SUMM	MARY			259,878,822.4

Item No.	HSR/ Rate code	Pay Item No	Description	Unit	Qty.	Rate/(Rs.)	Amount/(Rs.)
401 401/1 401/2	RA.19 RA.19a	401(1a) 401(1b)	Sub base Provide and place Sub base Type 1 Provide and place Sub base Type 11 as capping layer	Cu.m.	28,765.00 11,506.00	2,350.00	67,597,750.00 27,039,100.00
405 405/1	RA.20	405(1)	Dense Graded Aggregate Base Provide and place 37.5 (40) mm dense graded aggregate base (Compacted)	Cu.m.	20,920.00	8,300.00	173,636,000.00
408 408/1	SSR-11	408(2)	Reconstruction of Existing Pavement Scarify and remove existing asphalt layer.	Sq.m.	18,000.00	220.00	0.000,000,c
409 409/1	RA.19b	409(1)	Shoulders Provide and place Soil Shoulder Material	Cu.m.	4,510.00	2,100.00	9,471,000.00
D-0141182-1	1	CUD DASS	ES, BASES AND SHOULDERS TOTAL CARRIE	D TO MAIN	SUMMARY		281,703,850.0

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ILL NO Item No.	H\$R/ Rate code	SSCM No / Pay Item No	Description	Unit	Qty.	Rate/(Rs.)	Amount/(Rs.)
501 501/1	RA.36	501(5)	Prime Coat Prime coat with emulsion CSS-1 using 1 Itr/sq.m including blinding with sand at the rate of 250m²/1m³ of sand		112,420.00	252.00	28,329,840.00
502 502/1	RA.37	502(2)	Tack Coat Applying tack coat to the surface using emulsion CSS1 at a rate of 0.5 LVSq.m.	Sq.m.	224,840.00	110.00	24,732,400.00
506	24.00	506(3)	Asphalt Concrete Surfacing Asphalt concrete surfacing Binder Course	M.T.	10,567.48	21,200.00	0.00
506/1	RA.39	506(2)	Asphalt concrete surfacing Wearing Course	M.T.	10,567.48	22,600.00	238,825,048.0
	CINCS T	OTAL CARRI	ED TO MAIN SUMMARY				515,917,864.0

BILL NO.	HSR/ Rate code	SSCM No / Pay Item No	Description	Unit	Qty.	Rate/(Rs.)	Amount/(Rs.)
701 701/1	SSR-18	701 (2)a	Roadside and Lead Away Surface Drains Lining of drains with cast insitu class A or B grade 125/20 concrete	Cu.m.	1,215.00	31,200.00	37,908,000.00
701/2	SSR-21	701 (6)a	Precast reinforced concrete cover slab 75 mm thick with class A or B Grade '25/20 concrete (For light	Sq.m.	68.00	5,830.00	396,440.00
701/3	SSR-21	701 (6)b	vehiculur acccess) Precast reinforced concrete cover slab 100 mm thick with class A or B Grade '25/20 concrete (For light vehiculur acccess)	Sq.m.	135.00	6,120.00	826,200.00
701/4	SSR-22	701 (6)c	to the state of th	Sq.m.	101.00	10,920.00	1,102,920.00
1001/1	RA.32	1001(2)	Grade 15 with 40 mm aggregate size	Cu.m.	270.00	20,800.00	5,616,000.00
1002/1	STI-054	1002(1)	Steel Reinforcement (Tor Steel)	tonne(t)	94.50	230,000.00	21,735,000.00
1008/1		1	The state of the s	Sq.m.	17,550.00	2,400.00	42,120,000.00
			MAGE CONSTRUCTIONS TOTAL CARRIED TO MA	IN SUMMA	RY	•	109,704,560.00

tem No.	HSR/	SSCM No / Pay Item No	Description	Unit	Qty.	Rate/(Rs.)	Amount/(Rs.)
801 801/1	RA.25	801(1)	Top soiling Top soil furnished, transported, spread, levelled and tamped.	Sq.m.	15,040.00	800.00	12,032,000.00
802			Grassing	**	,		0.00
802/1	SSR-30	802(4)	Solid Soding	Sq.m.	22,560.00	723.00	16,310,880.00
806			Paved Side Walks				0.00
806/1	RA.19	806/1	Gravelly Soil Base Layer	Cu.m.	2,167.50	2,280.00	4,941,900.00
806/2	10.0.0	806/3	Bed course material using sand 40mm thick	Sq.m.	22,160.00	756.00	16,752,960.00
806/4	RA.35	806/4	Supply and Lay 450 x 450 x 50 mm Pre cast concrete slabs on foot walk	Sq.m.	5,000.00	3,880.00	19,400,000.00
807		į	Kerbs				0.00
807/1	RA.34	807/1	Supply and Lay Standared road kerbs.	L.m.	9,000.00	3,240.00	29,160,000.00
807/5	ST1-117		Construction Kerb inlet type K1/T1	Nos.	680.00	5,160.00	3,508,800.00
808 808/1	RA.26	808(5)	Guard Stones (concrete)	No.	200.00	4,140.00	828,000.00 0.00
810	1		Road Marking Paint				
810/1	RA.27	810(1)	Road Markings in reflectorized thermoplastic paint	Sq.m.	5,840.00	2,840.00	16,585,600.00
810/2	RA.28			No.	140.00	3,000.00	420,000.00
811	cep a	2 811(1)	Road Signs Provide and erect road signs	, No.	128.00	16,800.00	2,150,400.00
811/1	SSR-3	-	ONS TOTAL CARRIED TO MAIN SUMMARY		1		122,090,540.0

CONSTRUCTION OF INTERCHANGE AT SIRIBOPURA JUNCTION

code	/ Pay	Description	Unit	Qty.	Rate/(Rs.)	Amount/(Rs.)
1001 1003 1004 1005 1000-A	Item No	Construction of Hume Pipe Culvert. Construction of Concrete Ramp Wall. Construction of RRM Retaining Wall. Construction of Gabion wall Construction of Flyover		Refer Sub BC Refer Sub BC Refer Sub BC Refer Sub BC Refer Sub BC	DQ 1000-3 DQ 1000-4 DQ 1000-5	63,881,296.00 116,222,280.00 78,025,418.00 9,739,223.46 798,985,904.00

267,868,217.40

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CONSTRUCTION OF INTERCHANGE AT SIRIBOPURA JUNCTION

140	HSR/	SSCM No		120241000	-	D 4 //D)	A
No.	Rate code	/ Pay Item No	Description	Unit	Qty.	Rate/(Rs.)	Amount/(Rs.)
302	Code		Excavation and Backfill of structures			.,	
302/1	RA.12	302(1)	Excavation in unclassified suitable material and backfill of structures	Cu.m.	336.00	2,520.00	846,720.00
302/2	RA.13	302(5)	Excavation in unsuitable material and Backfill to structures with approved material	Cu.m.	134.40	3,960.00	532,224.00
302/3	RA.14 RA.15	302(4) 302(5)	Excavation in hard rock and Backfil to structures with approved material Excavation in marshy material and	Cu.m.	89.60	7,848.00	703,180.80
30214	KA.13	302(0)	backfill of structures with approved material	Cu.m.	44.80	6,804.00	304,819.2
302/5	SSR-08	302(8)	Backfill with granular material	Cu.m.	44.80	7,080.00	317,184.0
302/6	RA.19	304 (2)	Hard earth filling using Sub base Type 1 material.	Cu.m.	89.60	2,256.00	202,137.6
1001			Concrete for Structures				0.0
		1001(1)	Concrete Class A				0.0
1001/1	RA.29		Grade 25 with 20 mm aggregate size	Cu.m.	0.00		0.0
1001/2	RA:30		2) Grade 20 with 20 mm aggregate size	Cu.m.	268.80	23,600.00	6,343,680.6
1001/3	RA.31		3) Grade 20 with 40 mm aggregate size	Cu.m.	0.00		0.0
1001/4	RA.32	1001(2)	Concrete Class B 1) Grade 15 with 40 mm aggregate size	Cu.m.	1154.40	20,800.00	24,011,520.
1002			Steel Reinforcement for Concrete Structures				0.
1002/	1 STI-054	1002(1)	1) Steel Reinforcement (Tor Steel)	tonne(t)	6.40	230,000.00	1,471,411
1002/	5 STI-055	1002(1)	2) Steel Reinforcement (Mild Steel)	tonne(t	1.28	230,000.0	294,400
1006	5		Random Rubble Masonry				0
1006/			Mortared R. R. Masonry	Cu.m.	55.20	13,400.0	739,680
1006/	ST1-03	2 1006(3	Plastering	Sq.m.	57.60	2,520.0	0 145,152
1006	P1-002	2	Rubble Paving 150mm Thick	Sq.m.	38.40	15,800.0	606,720
100	8		Formwork for Structures	Ž.			
1008			Formwork, smooth finish	Sq.m	. 1433.6	3,192.0	4,576,05
1008		1008(2	Formwork, rough finish	Sq.m	424.9	3,000.0	
101	2		Stainless Steel Dowels	1		1	

012/1	BO-433	1012(1)	Stainless Steel Dowels (Dia. 20mm, Length 1.2m)	Nos.	8.00	3,600.00	28,800.00
1303 303/3	MS1-043	1303(3)	Painting of Culverts Painting of Culverts (Emulsion, One coat)	Sq.m.	128.00	1,772.00	226,816.00
705		** **	Drainage Backfill behind Earth Retaining Structures	2			0.00
705/1	RA.22	705(1)	Aggregate Backfill	Cu.m.	484.16	10,476.00	5,072,060.16
705/2	RA.23	705(2)	Filter medium	Cu.m.	57.06	11,880.00	677,825.28
705/2	RA.41	705(3)	Clay puddle	Sq.m.	25.92	1,668.00	43,234.56
706 706/1	RA.42	706(1)	Weep holes for Earth Retaining Structures Weep holes using 100mm dia., PVC pipes	L.m.	467.20	3,600.00	0.00
707			Hume Pipe.				0.00
707/5	RA.24.a		Reinforced concrete pipe Culvert 610. mm Dia.	L.m.	176.00	57,000.00	10,032,000.00
707/6	RA.24.b		Reinforced concrete pipe Culvert 915. mm Dia.	L.m.	22.00	95,000.00	2,090,000.00
707/7	RA.24.c		Reinforced concrete pipe Culvert 1220. mm Dia.	L.m.	0.00		0.00
808			Guard Stones				0.00
808/1	RF1- 008+RF1 009	808(5)	Casting and Fixing standard type guard stone in 225 mm thick cement concrete 1:3:6 (37.5 mm)	Nos.	144.00	11,520.00	1,658,880.00
	1009	1051111	ME PIPE CULVERT TOTAL CARRIED				63,881,296.00

m No.	HSR/ Rate code	SSCM No / Pay Item No	Description	Unit	Qty.	Rate/(Rs.)	Amount/(Rs.)
302 302/1	RA.12	302(1)	Excavation and Backfill of structures Excavation in unclassified suitable material and backfill of structures	Cu.m.	600.00	2,520.00	1,512,000.00
302/2	RA.13	302(5)	Excavation in unsuitable material and Backfill to structures with approved material		*	2 222 22	2 252 000 00
302/3	RA.14	302(4)	Excavation in hard rock and Backfil to structures with approved material	Cu.m.	210.00	7,848.00	3,366,000.00 1.648.080.00
302/4	RA.15	302(5)	Excavation in marshy material and backfill of structures with approved material	Cu.m.	150.00	6,804.00	1,020,600.00
302/5	SSR-08	302(8)	Backfill with granular material	Cu.m.	112.00	7,080.00	792,960.00
02/6	RA.19	304 (2)	Hard earth filling using Sub base Type 1	Cu.iii	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	100.15	001(2)	material.	Cu.m.	260.00	2,256.00	586,560.0
1001		100441	Concrete for Structures Concrete Class A		1		0.0
NO. 100 120 120 120 120 120 120 120 120 120	5.00	1001(1)	2) Grade 25 with 20 mm aggregate size	0	1792.00	23,600.00	42,291,200.0
1001/2	RA.30		3) Grade 20 with 40 mm aggregate size	Cu.m.	1792.00	22,500.00	0.0
1001/3	RA.31	1001(2)	The second secon	Ou.iii.			0.0
1001/4	RA.32	100 (1) Grade 15 with 40 mm aggregate size	Cu.m.	107.00	20,800.00	2,225,600.
1002			Steel Reinforcement for Concrete				0.
9 7	071.055	4000/4	Structures 1) Steel Reinforcement (Tor Steel)	tonne(t)	160.00	230,000.00	838
1002/1	STI-055	1002(1	Formwork for Structures	tornietty	100.00	200,000	0.
1008/1	ST1-061	1008(1	1	Sq.m.	4520.00	3,192.00	A STANDARD STANDARD STANDARD STANDARD
1008/2			1 7-1-6	Sq.m.	560.00	3,000.00	1,680,000.
1012	0		Stainless Steel Dowels				0.
1012/1	BO-433	1012(1) Stainless Steel Dowels (Dia. 20mm, Lengt 1.2m)	h Nos.		3,600.00	0
			Drainage Backfill behind Earth Retaining	2			
705			Structures			1	
705/1	RA.22	705(1) Aggregate Backfill	Cu.m.	460.00		
705/2	RA.23	705(2) Filter medium	Cuim.	248.00	11.880.00	
705/3	RA.41	705(3	The state of the s	Sq.m.	140.00	1,668.00	233,520
706			Weep holes for Earth Retaining Structures				
706/1	RA.42	706(The DMC wines	s L.m.	610.0	2,400.0	1,464,000
808			Guard Stones				
808/1	RF1- 008+RF1	808(5)	Casting and Fixing standard type guard stone in 225 mm thick cement concrete		505 5 5		
	009		1:3:6 (37.5 mm)	Nos.	52.00	7,860.0	0 408,72
		FOONCR	TE RETAINING/TOE WALL TOTAL CARRIE	D		1	

ltem No.	HSR/ Rate code	SSCM No / Pay Item No	Description	Unit	Qty.	Rate/(Rs.)	Amount/(Rs.)
302			Supporting and Backfill of etructures				y.
302/1	RA.12		Excavation and Backfill of structures Excavation in unclassified suitable		1		
		F-1501-07-07-17-0-0-0-17-1	material and backfill of structures	Cu.m.	60	1,176.00	70,560.00
302/2	RA.13	302(5)	Excavation in unsuitable material and		1		
ž.	. ,		Backfill to structures with approved	* -			
	51.44	1	material	Cu.m.	828	2,700.00	2,235,600.00
302/3	RA.14	1	Excavation in hard rock and Backfil to	Cu.m.	119	3,000.00	357,000.00
302/4	RA.15		structures with approved material Excavation in marshy material and	Cu.m.	113	3,000.00	00.000
302/4	101.10	302(3)	backfill of structures with approved				V. 74474 - 44446
	0.000000000		material	Cu.m.	178	2,700.00	480,600.00
302/5	SSR-08	302(8)	Backfill with granular material	Cu.m.	546	4,800.00	2,620,800.00
302/6	RA.19	304 (2)	Hard earth filling using Sub base Type 1				
			material.	Cu.m.	633	1,548.00	979,884.00
1001		1	Concrete for Structures				
		1001(1)	Concrete Class A				
1001/2	RA,30				504	00 000 00	11,894,400.00
		4004/01	2) Grade 20 with 20 mm aggregate size	Cu.m.	504	23,600.00	11,094,400.00
1001/4	RA.32	1001(2)	Concrete Class B				
1001/4	101.52		1) Grade 15 with 40 mm aggregate size	Cu.m.	126	20,800.00	2,620,800.00
1002			Structures				
1002/1	STI-055	1002(1)			40	222 222 22	2.760.000.00
			Steel Reinforcement (Tor Steel) Random Rubble Masonry	tonne(t)	12	230,000.00	2,760,000.00
1006/1	RA.33	1006(1)		Cu.m.	1,783	13,400.00	23,892,200.00
1006/2	The second second	ATTENDED TO	Mortared R. R. Masonry Plastering	Sg.m.	804	2,520.00	2,026,080.00
1008	011302	1.000(0)	Formwork for Structures		7. 972 Ge	4 4	0.00
1008/2	ST1-064	1008(2)	Market and the second of the s	Sq.m.	1,368	4,440.00	6,073,920.00
705			Drainage Backfill behind Earth				
703		1500-000	Retaining Structures				
705/1	RA.22	705(1)	Aggregate Backfill	Cu.m.	571	15,240.00	8,702,040.0
705/2	RA.23	705(2)	Filter medium	Cu.m.	100	17,400.00	1,740,000.00
705/3	RA.41	705(3)		Sq.m.	801	2,430.00	1,946,430.0
706	1	1	Weep holes for Earth Retaining				
706/1	RA.42	706(1)	Structures Weep holes using 100mm dia., PVC		i K	1	
70071	100.42	7.00(1)	pipes	L.m.	408	3,600.00	1,468,800.0
808			Guard Stones		-		
808/1	RF1-	808(5)	Casting and Fixing standard type guard stone in 225 mm thick cement concrete				
	008+RF1- 009		1:3:6 (37.5 mm)	Nos.	679	11,520.00	7,822,080.0
1012	1			1			No. 10 to 10
			Stainless Steel Dowels Stainless Steel Dowels (Dia. 20mm,				-
1012/	BO-433	1012(1	Length 1.2m)	Nos.	66	5,064.00	334,224.0
CONST	RUCTION OF	RRM RET	AINING/TOE WALL TOTAL CARRIED				78,025,418.0

CONSTRUCTION OF INTERCHANGE AT SIRIBOPURA JUNCTION

SUB BILL NO :1000-5

CONSTRUCTION OF GABION WALL

Item No.	12/4/12/5/5/5/5	SSCM No / Pay Item No	Description	Unit	Qty.	Rate/(Rs.)	Amount/(Rs.)
302			Excavation and Backfill of				
	RA.12	302(1)	structures Excavation in unclassified suitable material and backfill of structures	Cu.m.	4.63	2,520.00	11,655.00
302/2	RA.13	302(5)	Excavation in unsuitable material and Backfill to structures with approved material	Cu.m.	64.75	3,960.00	256,410.00
302/3	RA.14	302(4)	Excavation in hard rock and Backfil to structures with approved material	Cu.m.	9.25	7,848.00	72,594.00
302/4	RA.15	302(5)	Excavation in marshy material and backfill of structures with approved				
302/5	SSR-08	302(8)	material	Cu.m.	13.88	6,804.00	94,405.50
			Backfill with granular material	Cu.m.	14.80	7,080.00	104,784.00
302/6	RA.19	304 (2)	Hard earth filling using Sub base Type 1 material.	Cu.m.	303.40	2,256.00	684,470.40
1001		1001(1)	Concrete for Structures				
1001/	RA.30	1001(2)	Concrete Class A 2) Grade 20 with 20 mm aggregate size	Cu.m.	31.82	23,600.00	750,952.00
1001/ 4	RA.32		Concrete Class B 1) Grade 15 with 40 mm aggregate size	Cu.m.	5.55	20,800.00	115,440.00
1002	STI-055	1002(1)	Steel Reinforcement for Concrete Structures	tonne			
1 805			1) Steel Reinforcement (Tor Steel)	(t)	0.78	230,000.00	178,710.00
805/1	SSR.3	805/1	Gabions	Cum	296.0	23,550.00	6,970,800.00
805/2	RA:18	805/2	Gabions Filter Fabric	Cu.m		1,182.00	
805/3		805/1	Compacted Ruble Base	Cu.m		6,820.00	
808			Guard Stones				
808/1	RF1- 008+R 1-009	808(5)	Casting and Fixing standard type guard stone in 225 mm thick cement concrete 1:3:6 (37.5 mm)	Nos	2.00	4,545.00	9,090.00
		TION OF G	ABION WALL TOTAL CARRIED				9,739,223.46

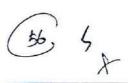
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CONSTRUCTION OF FLYOVER AT SIRIBOPURA JUNCTION SUB BILL NO :1000-A CONSTRUCTION OF FLYOVER (LENGTH 150M)

UB BILL		CONSTRUCTION OF FLYOVER (LENGTH 150	OM)			
Item No.	Pay Item No	Description	Unit	Qty.	Rate/(Rs.)	Amount/(Rs.)
302		EXCAVATION AND BACKFILL FOR				
302/1	302 (5)	STRUCTURES Excavation and backfill for structures (General)	Cu.m.	2,400	3,720.00	8,928,000.00
302/2	302 (5)	Excavation and backfill for structures (sheet pile)	Cu.m.	930	11,040.00	10,267,200.00
302/3	302(8)	Backfilling with porous backfill material - Type B for structures.	Cu.m.	690		0. 50 520055
302/4	302(7)	Backfilling with crushed stone (50-100mm) under long span bridges	Cu.m.	1,140	10,920.00	7,534,800.00 17,373,600.00
4004		- Manage Visit Control Control			15,240.00	
1001	4004(0)	CONCRETE	C			0.00
1001/1	1001(3)	Grade 15 Concrete	Cu.m.	53	20,000.00	1,060,000.00
1001/2	1001(1)	Grade 30 Concrete	Cu.m.	1,997	24,300.00	48,527,100.00
1001/4	1001(1)	Grade 40 Concrete	Cu.m.	- 1,150	32,900.00	37,835,000.00
•						0.00
1008		FORM WORK				0.00
1008/1	1008 (1)	Class F1 Form work - Pile Caps	sq.m.	469	3,000.00	1,405,800.00
1008/2	1008 (1)	Class F4 Form work - Parapets	sq.m.	90	3,240.00	291,600.00
1008/3	1008 (1)	Class F4 Form work - Piers/Abutments	sq.m.	2,778	55.*************	
	an areas and artist		0.000		3,240.00 3,240.00	9,000,720.00 11,871,684.00
1008/4	1008 (1)	Class F1 Form work - Deck , Crossbeam,	sq.m.	3,664	3,240.00	0.00
1002	6.4	REINFORCEMENT		1		
			tonne(t)			0.00
1002/1	1002(1)	High Yield steel bars Grade 460	tormett	354	291,600.00	103,226,400.00
				1		0.00
1003		PRE CAST CONCRETE UNITS - GIRDERS				0.00
1003/1	1003 (1)	PC - post tension girder - 30.0m long	nr	60		
		ACCORDANCE TO CONTROL SAFETY OF THE SAFETY O			5,808,000.00	348,480,000.00
1003/2	1003 (2)	PC Girder Erection - 30.000m long	nr	60	1,392,000.00	83,520,000.00
		TESTING GIRDER		1 '		10 10 0
		And the supposed to the same as well a supposed to				0.00
		Testing of PC post - tensioned girder - 30.0 m long.	nr	2	2,232,000.00	4,464,000.00
1009		STRUCTURES - MISCELLANEOUS			8	0.00
1009/	1 1009(1)	Expansion joint - for foot ways	m	35	26,400.00	
1009/2	1009(1)	Expansion joint - for main bridges (reinforced elastomeric)	· m	150	78,000.00	11,700,000.00
1010	1 1010 (1)		nr	120	57,600.00	6,912,000.00
1020	S B arrowsersamor	MISCELLANEOUS		100	4 000 00	1 930 000 00
1020/			m	400	4,800.00 3,960.00	
1020/		The state of the s	m	400	3,900.00	0.00
1020/			nr	8,000	9,720.00	1
1020/	1020(1)	Name Plate	nr	2		
CONS	TRUCTION	OF FLYOVER (LENGTH 300M) TOTAL CARRIE	DTOM			798,985,904.00



DAY WORKS, LABOUR & EQUIPMENT ALL QUANTITIES ARE PROVISIONAL

1. LABOUR

٠	Grade of staff	·	Unit	Qty	Rate	Amount
1. Unskilled lat	bour		day	225.00	4,800.00	1,080,000.00
2. Semi skilled	labour		day	225.00	5,760.00	1,296,000.00
3. Skilled labou	ır		day	225.00	6,960.00	1,566,000.00
4. Operator			day	225.00	7,680.00	1,728,000.00
5.Driver (Heav	y Duty Vehicles)		Hrs	450.00	900.00	405,000.00
6.Driver (Light	Duty Vehicles)		Hrs	450.00	870.00	391,500.00
Total			4			6,466,500.00

2. EQUIPMENT

The rates are exclusive of Driver, Operator or Attendent, but inclusive of Fuel & Consumable stores.

24 10 K 2 H 18 18 18

Description	Capacity	Unit	Qty	Rate	Amount
1. Backhoe loader	2 WD, 0.15 scoop capacity	hrs	175.00	4,200.00	735,000.00
2. Farm Tractor	With 3T trailer	hrs	175.00	600.00	105,000.00
3. Farm Tractor	With Broom	hrs	175.00	3,000.00	525,000.00
4. Water Bowser	6000 ltrs	hrs	175.00	1,800.00	315,000.00
5. Motor Greader	120-140 HP	hrs	175.00	4,200.00	735,000.00
6. Spreyer	Emultion	hrs	175.00	5,400.00	945,000.00
7. Chip - Spreader	Propelled	hrs	175.00	2,100.00	367,500.00
8. Roller	8-10 Ton	hrs	175.00	2,400.00	420,000.00
Vibrating Roller -	7 Ton (Small Tandem)	hrs	175.00	3,540.00	619,500.00
10. Pneumatic Roller	8-10 Ton	hrs	175.00	4,200.00	735,000.00
11. Mechanical Paver	Wheel	hrs	110.00	18,000.00	1,980,000.00
12. Road Marker	Hand Cart, Gas/Heater	hrs	110.00	2,100.00	231,000.00
13. Pickup truck	Double cab, 4WD	km	700.00	48.00	33,600.00
14. Rammers	60 kg	Hrs	220.00	870.00	191,400.00
15.Mobile Crane	(Wheeled or tracked) 25 T	Hrs	110.00	18,000.00	1,980,000.00
16.Low bed Trailer	(20 to 40 tonnes)	Hrs	220.00	12,000.00	2,640,000.00
17.Tar Boiler		Hrs	110.00	1,800.00	198,000.00
18.Bitumen Distributor	750 Ltrs	Hrs.	110.00	5,400.00	594,000.00
Total					13,350,000.00

M		1	DENTAL WORKS	UNIT		QTY	R	ATE	AMC	OUNT (Rs)
I I	Pa	·	DESCRIPTION				-			-
	7.1	1	OP SOILING	1 2			_			
8	01(1)	F	Furnish, Spread and compact top soil	m ²	+		-			
1	7.2	_	GRASSING		-	79,860	- 15	540.00	43	,124,400.00
18	02(1)	Grass sodding	. m ²	+	79,000	-	510.00	7.	
_	7.3		RIP RAP PROTECTION FOR EMBANKMENT SLOPES		+	200	-	.560.00	2015	712,000.00
3 8	304(1)	Dumped Rip Rap	m ³	+	200		,,000.00		
_	7.4		PAVED SIDE WALKS		+					-
4 8	806(n .	Precast concrete slab (450x450x50mm) paving	m ²			_			
-	806(20	Asphalt concrete surfacing to 50mm compacted thickness	m	2					
3	7.5		PRE CAST CONCRETE KERBS AND CHANNELS						_	
<u> </u>	_		Standard kerb	n	n		_			
6	_	7(1)	Flat /Edge Kerb	n	n		_		_	
7	-	7(2)		Г	n		_		_	
8	_	7(3)	Drop kerb Bridge kerb	ı	n		_		-	
9	-	07(4)	Guard stones (Road way, Culverts, Causeway and Bridg	es) r	nr	2,500		6,000.00	1	15,000,000.00
10	1	08(1)	ROAD MARKING						1	
-	7.0		Center line :				1		_	
	-				m²	6,110	_	2,500.00	1	15,275,000.00
11	810		Continuous		m²	2,499		2,500.00	4	6,247,500.00
12	810	0(2)	Intermittent						_	
	-		Edge line:		m²	7,684	1	2,500.00	+	19,210,000.00
or F	Pr 81		Continuous		m ²	390		2,500.00		975,000.00
14	-	0(4)	Pedestrian crossing		nr	650	3	2,200.00	0	1,430,000.00
1		0(5)	Road Studs						-	* "
L	7	.7	ROAD SIGNS Reflective road sign:				-		+	13,872,400.00
-	-	14/4)	Single pole, sign area up to 0.5m ²		nr	878	-	15,800.0	_	198,000.00
\vdash	-1-	11(1)	Double pole, sign area up to 2.0m ²		nr	6		33,000.0	anni -	
-	-	11(2)	Chevron warning sign		nr	30		17,280.0	00	518,400.0
-		11(3)	Flag Type Sign		nr				+	
1	_	11(4)	CONCRETE KERB INLETS				1		+	
		7.8			nr				4	
_	_	13(1)	- 1 total stab (800×500×50mm this	ck)	m ²				-	
E	21 /	01(2)	KILOMETRE POSTS						\dashv	100.000
-	-1	7.9	to the transfer of paint new kilometre post		nr	24		19,320.	.00	463,680.0
1	-	815(1)	tion kilomotor post		nr				_	
-	-	815(2)	- I I I I sales noct		nr					
-	24	815(3	MAINTENANCE OF CARRIAGEWAY							
-	-	7.10	the same of the sa	rete						25.750.000
1	25	1101	Cold mix (MC30), 20mm & less in depth		m	25,0	000,	1,030	0.00	25,750,000
}				rete					700a F	
	26	1101	(2) Filling pot-noise and patch repair Cold mix (MC30), 75mm & less in depth		m	2 18.	000	3,800	0.00	68,400,000
		_	- telepropaign with Asphalt conc	rete						
	27	1101	(1) Filling pot holes and patch repeats that (1) Cold mix (MC30), deeper than 75mm		m	n ² . 6,0	000 -	.6,34	5.00	38,070,000
	1	_	the least notch repairs with gravel	-	п	n ³	8			
	28	1401(1) Filling pot noies and pater repairs many		1					249,246,38

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TEN	ı	DESCRIPTION		OUANTITY.	5475	TOTAL AMOUNT
Bill	Pay	DESCRIPTION	UNIT	QUANTITY	RATE	(Rs)
1	103(2)	Temporary by-passes for culverts, bridges and				
		other strectures.	Item	Allow		4,000,000.00
2	111(1)	Allow for provision of standards/technical literature as				
		required by the Engineer	Item	Allow		1,200,000.00
3	113.1(1)	Repairs to damages of existing services	Item	Allow		1,000,000.00
4	113.1(2)	Demolition / Rebuilding of property	Item	Allow		11,000,000.00
5	117.1(1)	Diversion, protection or removal of electrical services	Item	Allow		22,000,000.00
6	117.1(2)	Diversion, protection or removal of water services	Item	Allow		8,000,000.00
7	117.1(3)	Diversion, protection or removal of telecommunication services	Item	Allow		15,000,000.00
8	703(1)	Grade adjustment of existing manholes	Item	Allow		500,000.00
9	1103(1)	Investigations and clearance of Landmines and unexploded ordnance on roads and bridges where necessary	Item	Allow		
10	118.12(1)	Provide stationary for the Engineer	Item	Allow	PS	1,500,000.00
11	118.12(2)	Provide stationary for the Employer	Item	Allow	PS	1,000,000.00
10		Allow for Contractor's overheads and profit for above Provisional Sum items.	%	65,200,000	30%	19,560,000.00
				A 1. 1		
*	,		-	-1 1	5 6 6	
	1			E + E		- d
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
		W , W 3 1 1 1				90 90
or Pr	ice Escalat	ion 8% T	0			
			+			
		ed to Summary	٠	L		84,760,000.00



1000	o.9 : SCHEDULE OF DAY WORKS RATES				
	BOUR DAY WORKS				
II Qua	ntities are Provisional				
ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
1	Surveyor	Hr	30	670	20100
2	Laboratory Technician (skilled)	Hr	-		
3	Carpenter	Hr	30	330	9900
4	Mason	Hr	30	330	9900
5	Steel Fixer	Hr	30	330	9900
6	Semi-skilled workman	Hr	90	300	. 27000
7.	Unskilled workman (labourer)	Hr	90	250	22500
	•				
	\$				
50.00					
11	and the second second			STEE INT	
for Pr	ice Escalation 8%		0		
					-
		79			
					99,300.

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BILL N	o.9: SCHEDULE OF DAY WORKS RATES				
9.2 : EC	QUIPMENT DAY WORKS				
All Qua	ntities are Provisional			C,	ATIC
ITEM	DESCRIPTION	, ŲNIT	QUANTITY	RATE	AMOUNT (Rs)
1	Bowser, water, up to 6,000 litres with Spray Bar	Hr	20	1680	33600
2	Backhoe, wheeled, 50 - 100 HP	Hr	20	2100	42000
3	Backhoe, tracked, 50 - 100 HP	Hr	20	3000	60000
4	Motor grader, 120 to140HP	Hr	20	3600	72000
5	Mobile Crane 25 tonnes	Hr	20	5400	108000
. 6	Water pump with hoses, 50 to 100 mm outlet	° Hr	50	2,400	. 120000
7	Concrete mixer, over 0.50 cu.m.	Hr	10	600	6000
8	Generator, 10 to 50 KVA	Hr	100	2,400	240000
9	Poker Vibrator, petrol driven	Hr	10	300	3000
Equip	ment Day works Carried to forward :				684,600.0

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THE PRICED BILL OF QUANTITIES AND SCHEDULES

PRP 1 / C3

Improvement and Rehabilitation of Priority Road Project

- Contract Package No - RDA/RNIP/PRP1/C3

Thiruwanaketiya - Agalawatte Road (B 421)
Section from 0.00 km (Thiruwanaketiya) to 33.45 km (Kalawana)
Length of the Section 33.45km

BILL OF QUANTITIES

	SUMMARY	
		AMOUNT(Rs.)
No.	Description	
	Preliminary and General 1 A	92,153,416.00
. 1		50,040,000.00
	18	28,832,500.00
2	Site Clearing	
	Earthworks	216,753,000.00
. 4	Road Pavement	1,339,685,120.00
. 5	Drainage	225,694,000.00
	Bridges and Culverts	224,100,720.00
. 6		111,354,100.00
7 :	Incidentals	65,650,000.00
. 8	Provisional Sums	101,700.0
	Day works - Labour	
9	Day works -Equipment	18,516,800.0
	Day works - Materials	
Sub - Tota		2,372,881,356.0
0	I sum for Price Escalation 5%	189,830,508.4
	cies at 10% of Sub - Total 1	237,288,135.6
	cres at 10% of 3db - fold 1	the second second second
	The state of the s	7

				-	74			2,800,000,000.08
TENDER PRICE		167					ــــــــــــــــــــــــــــــــــ	2,000,000,000
In words	/	11 11			2.8			2 8 500
٠٠			4.5	10				
	-		10			12	F .	A
Value added toy at 12% of	the Toods	or Drice				37.54		336,000,000.01

Bidder.

Signature

Name

Address

Wilness 1

Signature

Name

Address

Witness 2

Signature Name

Address

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BILL	No.1A: PRE	ELIMINARY GENERAL	15			
	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
Bill	Pay 108.1(1) A	Allow for cost of providing Performance Security	Ls/Item	1/Allow	Ls	9,500,000.00
		Allow for the cost of providing Insurances	Ls/Item	1/Allow	Ls	9,500,000.00
2		Mobilization of Contractor's facilities and Plant / Equipment	Ls/Item	1/Allow	Ls	5,000,000.00
3		De-Mobilization of Contractor's facilities & Plant / Equipment	Ls/Item	1/Allow	Ls	1,828,416.00
4		Provide and maintain Project sign board	· · ·	2	80,000.00	160,000.00
5				3	55,000.00	165,000.00
6		Provide and maintain Plaques	ur -	4 * **	2,300,000.00	2,300,000.00
7		Provide Main office for the Engineer	nr	1	1,500,000,00	1,500,000.00
8		Provide Secondary office for the Engineer.	nr .	The second	2,300,000.00	(10) (10) (10) (10) (10)
(9)		Provide office for the Employer	nr			
60	118.6(1)	Provide Housing for the Employer	nr	17.	2,300,000.00	2,300,000.00
11		Provide Housing for the Engineer	nr		2.300.000.00	2,000,000,00
		Vehicles for the Engineer	1.01	the same of the	1 1 1 1 1 X	
12	.118.8(1)	Purchase and supply Vehicle Type 1A as specified in appendix 4 of Volume B.	Item	Allow	PS	4,000,000.00
		Purchase and supply Vehicle Type 1B as specified in appendix 4	Item	Allow	PS	6,000,000.00
13	118.8(1)	of Volume 2				0.000.000
.14	118.8(2)	Purchase and supply Vehicle Type 2 as specified in appendix 4 of Volume 1		Allow	PS	6,000,000.00
15	118.8(3)	Purchase and supply Vehicle Type 3 as specified in appendix 4 of	Item	Allow	^	6.000
13	1 (0.0(5)	Volume 1	%	10,000,000.00	10%	
16	118.8(4)	Over heads and profit for supply of vehicle Type 1A & 1B	/0		in a second	
17	118.8(5)	Over heads and profit for supply of vehicle Type 2	%	6,000,000.00	10%	the second second
	118.8(6)	Over heads and profit for supply of vehicle Type 3	% :	6,000,000.00	10%	600,000.00
18	110.0(0)					
		Vehicles for the Employer Purchase and supply Vehicle Type 1 as specified in appendix 4 o			р	s 4,000,000.00
19	118.8(10	Volume 9	111 7	Allow		3 4,000,000,00
20	118.8(11	Purchase and supply Vehicle Type 2 as specified in appendix 4 c	llem.	Allow		
21	118.8(12	Over heads and profit for supply of vehicle Type 1	%	4,000,000.	10%	400,000.00
		Over heads and profit for supply of vehicle Type 2	- %	1.0	المراجعة المستعلق المراجعة	
22	118.8(13	Over heads and profit for supply of vertice 1,750	1.5		0.000.000	3,000,000.00
23	118.9(1)	Provide Main Laboratory	inr :	of the second second	3,000,000.	3,000,000.00
24	118.9(2	Provide Secondary Laboratory	nr			
			Ls/Iter	n 1/Allow		11,000,000,00
25	1 1971		Ls/iter			4,000.000.00
26	4 0000000000000000000000000000000000000	18. Pr. 18. No. 18. No. 18. No. 18. No. 19. N	Ls/Ite	150	'	6,000,000.00
2	7 118.10(1) Provide and maintain Survey equipment	·			
21	B 119(1)	Longitudinal and Cross sectional detailing of full pavement width	Ls/ite	m 1/Allow	2.10	5,000,000.00
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10000	EM NO				T	4)
11	Pay	DESCRIPTION -	UNIT	QUANTITY	RATE	AMOUNT (Rs)
1	103(1)	Management, Safety and Control and Temporary Diversion	é			
1		of Traffic, including provision of a general traffic	,		-	
	5	management plan in accordance with Technical	*	-		
		Specifications Clause 112.8 of the General Items.	mon	24	180,000.00	4,320,000.0
	108.4(1)	Progress Photographs	mon	24	32,000.00	-768,000.0
	118.5(1)	Maintain Main office for the Engineer.	mon	24	180,000.00	4,320,000.0
1	118.5(2)	Maintain Secondary office for the Engineer.	mon	24	180,000.00	4,320,000.0
		Maintain office for the Employer	mon	24	180,000.00	4,320,000.0
1	*** * *	Maintain Housing for the Employer	mon	× _ *	Top 1	
		Maintain Housing for the Engineer		24	150,000.00	3,600,000.0
		Vehicles for the Engineer	mon		1 + 1 1 1	3 3 4 4 4
	118.8(7)	Maintenance of Supplied Vehicle type 1A & 1B in Item 118.8 (1)	Veh-mon	48	150,000.00	7,200,000.0
	118.8(8)	Maintenance of Supplied Vehicle type 2 in Item 118.8 (2)	1 4.5	24	170,000.00	4,080,000.0
-			Veh-mon		170,000.00	
)	118.8(9)	Maintenance of Supplied Vehicle type 3 in Item 118.8 (3)	Veh-mon	48	80,000.00	3,840,000.0
	1.	Vehicles for the Employer				
	118.8(14)	Maintenance of Supplied Vehicle type 1 in Item 118.8 (10)	Veh-mon	24	150,000.00	3,600,000.0
	118.9(15)	Maintenance of Supplied Vehicle type 2 in Item 118.9 (11)	Veh-mor			
3	118.9(5)	Maintenance of Main Laboratory	mon	24	100,000.00	2,400,000.
1	118.9(6)	Maintenance of filed Laboratory	mon.			
5	118,11(1)			72	26,000.00	1,872,000
5		Survey Assistant (classified skilled)	mon	24	31,000.00	744,000.
	1000		mon			
7	to the of man	Secretary	mon .	24	32,000.00	.768,000.
8	118.11(4)	Administrator/Cleark	mon	24	32,000.00	768,000.
9	118.11(5)	Office Assistants	mon	48	31,000,00	1,488,000
0	118.11(6)	CAD Draughtsperson	- mon	24	68,000.00	1,632,000.
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EM				CHANTITY	BATE	AMOUNT (PA)
ill	Pay	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
	* **	CLEARING AND GRUBBING	es. i			
1	201(1)	Clearing and grubbing	m²	128,000	60.00	7,680,000.00
1		Remove trees:	F .		1 .	4 .
2	201(2)	- Girth 600 to 1,200 mm	nr	600	5,800.00	3,480,000.00
-	201(3)	- Girth 1,200 to 2,000 mm	nr.	. 150	11,000.00	1,650,000.00
-	201(4)	- Girth over 2000 mm	nr	75	21,000.00	1,575,000.00
		Remove Branches:		2.4		· · · · · · · · · · · · · · · · · · ·
5	201(5)	- Girth 300 to 600 mm	nr	150	5,300.00	795,000.00
-	201(6)	- Girth 600 to 1,200 mm	nr .	- 25	7,500.00	187,500.00
-	201(7)	- Girth over 1,200 mm	nr	15	17,500.00	262,500.00
-		Remove Slumps:	24 47 74 47			
8	201(8)	- Girth 600 to 1,200 mm	ii nr	20	5,300.00	106,000.00
_	201(9)	- Girth 1,200 to 2,000 mm	- nr	5	6,700.00	33,500.00
_	201(10)	- Girth over 2000 mm	nr	. 2	19,000.00	38,000.00
	2.2.	REMOVAL OF STRUCTURES & OBSTRUCTIONS		200		
11	202(1)	Dismantle & remove brick masonry structures	1.12	2	4-1-1	
		(Provisional Quantity)	m³	100	6,000.00	600,000.0
12	202(2)	Dismantle & remove Random Rubble masonry structures	11.	111111111111111111111111111111111111111	1. 1. 1.	
	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	(Provisional Quantily)	m³	500	9,200.00	4,600,000.00
13	202(3)	Dismantle & remove concrete structures	7.735			C S 32 1544 29 A1
	44.2	(Provisional Quantity)	m³.	200	11,000.00	2,200,000.0
14	202(4)	Dismantle & remove Dress stone mosonary structures		12.00		
	10000	(Provisional Quantity)	: m³,	250	7,500.00	1,875,000.0
15	202(5)	Remove fencing (Provisional Quantity)	m	3,000	1,250.00	3,750,000.0
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BILL	No.3 : EAF	RTH WORKS				20 A
	ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
3ill	Pay,		945135			
*	3.1	ROADWAY EXCAVATION	*		516	
1	301(1)	Roadway excavation , soil suitable for fill .	m ³	•		
2	301(2)	Roadway excavation, boulders (Provisional Quantity)	. m3	L 1.	1	
3	301(3)	Roadway excavation, hard rock (Provisional Quantity)	m³	6,500	6,700.00.	43,550,000.00
4	301(4)	Roadway excavation, unsuitable soil	- m³-	61,400	1,160.00	71,224,000.00
5	301(5)	Roadway excavation, sub grade replacement	m ³	5,000	2,010.00	10,050,000.00
6	301(6)	Road pavement excavation	· 'm³	5,000	1,000.00	5,000,000.00
7 -	301(7)	Prepare sub grade in cut areas	m² -	49,650	110.00	5,461,500.00
.1	3.2	STRUCTURE EXCAVATION AND BACKFILL		18.0		
8	302(1)	Excavation & backfill for structures with suitable soil	m³			
9	302(2)	Excavation and Backfill for structures in unsuitable soil	· m³	9,150	3,250.00	29,737,500.00
10	302(3)	Excavation in Boulders for structures (Provisional Quantity)	m³	1.500.00	154	The second second
- Constant	302(4)	Excavation in Hard rock for structures (Provisional Quantity)	m³ ·	250	9,160.00	2,290,000.00
2)	3.3	EMBANKMENT CONSTRUCTION	- 1			
12.	1	Trim, level and compact roadbed	m²	65,800	100.00	6,580,000.0
13		Embankment construction, Type 1	m³	6,360	2,000.00	12,720,000.0
14		Embankment construction, Type 2	m³.	4,240	2,000.00	8,480,000.0
-	304(4)	Boulder packing for soft ground treatment	m³	250	5,300.00	1,325,000.0
	3.4	CHANNEL EXCAVATION				***************************************
16		Channel excavation soil suitable for fill	m ³	T		
:17	307(2)	Channel excavation, boulders (Provisional Quantity)	m ₃		Angelous Secure	
18		Channel excavation, bodiders (Provisional Quantity)	-	350	11,600.00	4,060,000.0
19	-	Channel excavation, unsuitable soil	m³.	13,020	1,250.00	16,275,000.0
19	307(4)	Charmer excavation, unsultable soil	10.	10,020	1,230.00	10,273,000.0
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	ITEM	SCOOMSTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
1	Pay	DESCRIPTION	UNIT	QOARTITI.		9 0 1
	4.1	GRANULAR PAVEMENT .			* .	
1	401(1),	Sub base as compacted in position	m³	25,000	4,970	124,250,000
	402(1)	Provide and place stabilized gravel base of 200mm thick	m ³			
	402(3)	Cement	tonne			
	405(1)	Dense graded aggregate base.	m ³	56,000	7,510	420,560,000
3	4.2	RECONSTRUCTION OF EXISTING PAVEMENT				
000	408(1)	Scarify and remove existing bilumen layer	m ²	169,600	. 68	11,532,800
	4.3		Ť		- 7	
	409(1)	Earthen shoulder as compacted in position	m ³	23,040	2,833	65,272,320
	402(1)	Stabilized gravel shoulder as compacted in position	m³.			
	402(3)	Cement	tonne			
	409(2)	Dense graded aggregate shoulders as compacted in position	m ³			
0	409(3)	Trench excavtion for cross shoulder drain	m ³	450	3,600	1,620,000
1	409(4)	Porous material for cross shoulder drain	m ³	300	6,600	1,980,000
2	1710(1)	Geotextile for cross shoulder drain	m ²	200	1,000	200,000
_	4.4	PRIME COAT AND TACK COAT	\$500 Y			
5	501(1)	Bituminous Prime Coat using MC 30 at 1 litre per m ²	m ²	249,000	260	64.740.000
	501(2)	Extra over for MC 30	itr.			
- 10		Bituminous Tack Coat (Cationic Emulsion grade.				
15	302(1)	CRS1 at 0.3 litre/m²)	m ²	249,000	120	29,880,000
	502(2)	Extra over for CRS 1	il.			
	4.5	BITUMINOUS SURFACING	:		1,¥	
17	-	Bitumen Grade (80-100)	itr	1	1	
	*	Kerosene/ diesel or other approved cutter	itr	G I To The Control of	2	
	3 505(2)	20mm chips	m	1	2	
	505(3)	10mm chips	m		77.7	
2		Asphalt concrete in wearing course 50mm compacted thickne	-	4 - 11 F - 1	2,450	610,050,000
2		Asphalt concrete in binder/ Correction course	-M	1,000,000	19,200	9,600,000
2	2 506(2)	Asphalt concrete in billoeti Correction 303.35			1 2 2 2	
*	-		- 1	-11		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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	ITEM					
Bill	Pay	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
	5.1	ROADSIDE AND LEAD AWAY SURFACE DRAINS	·		+	
		Concrete :				
1	1001(1)	Grade C 15	m ³	745	23,000	17,135,000
2	1001(2)	Grade C 20	m ³	3,465	29,000	100,485,000
3	1006(1)	Random rubble masonry	m ³			
4	1006(2)	Plastering, 1:3 cement sand mix, 16mm thick	. m²			
		Precast concrete cover slab :				
5	701(3)	600 X 500 X 100mm thick	m ²	600	3,200	1,920,00
6	701(4)	800 X 600 X 125mm thick	m²	4,320	3,200	13,824,00
 7 -	1002(1)	Tor Steel reinforcement	kg	188,000	260	48,880,00
	79,0 7,000 7	Form work				
8	1008(1)	Formwork smooth finish	m²	33,000	1,250	41,250.00
9	1008(2)	Formwork rough finish	m ²			
1.5	5.2	SUB-SURFACE DRAINS (UNDERDRAINS)	2	* * * * * *		
10	702(1)	160mm dia. PVC Pipe (Type 600)	.⊲∵m			
11		Graded aggregate maximum size 37.5mm	m³			
12		Provide and place Geyotextile fillter	m²			
1	5.3	UNDER GROUND PIPE DRAIN				
13	3 704(1)	Inlet to line drain PVC pipe (Type 600) 100mm dia.	m	4.5		
13	5.4	CLEANING AND RESHAPING OF EARTH DRAINS	1122			
14	1301(1)	Clear and reshape earth drains	· Asimi			
	5.5	CLEANING AND REPAIRING OF BUILT-UP DRAINAGE SY	STEM	to a francisco. A gradini de la composição	1. 1. 1. 1. 1.	
15	1302(1)	Clean, desilt & repair built-up (lined) drains.	; m	200	- 1,500.00	300,0
1.0745	5.6	CLEANING, DESILTING & REPAIRING OF CULVERTS				
16	3 1303(1)	Pipe Culverts	nr	20	50,000	1.000.0
17	1303(2)	Other Culvert type	nr	15	60,000	900,0
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	ITEM				DATE	AMOUNT O
Bill	Pay	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (R
	6.1.	STRUCTURES				
.		Concrete:		E 1	an IV	į.
1	1001(1)	Grade C 15	. m³ .	1,000	21,600.00	21,600,000
2	1001(3)	Grade C 25	m ³	525	30,800.00	16,170,000
3	1001(4)	Grade C 30	m³ ·	90	40,000.00	3,600,000
4	1002(1)	Tor Steel reinforcement	kg	48,990	260.00	12,737,400
5	1006(1)	Random rubble masonry	.m³	1,659	13,750.00	22,811,250
		Formwork				
6	1008(1)	Formwork smooth finish	m²	2,940	1,400.00	4,116,000
7	1008(2)	Formwork rough finish	m ² .	1,868	1,500.00	2,802,000
8	705(1)	100mm crushed stone back fill material	m³	800	4,580.00	3,664,000
.9	705(2)	37.5mm maximum size crushed stone - filter material	m³	113	6,250.00	706.25
10	706(1)	Weep hole, 75mm dia. PVC pipe (Type 600)	m	1,478	1,580.00	2,335,24
11	706(2)	Rainwater outlet/Duts 160mm dia PVC pipe (Type 600)	m m			
.12	814(1)	Hand Rails and uprights	m	180	9,000.00	1,620,00
13	814(2)	End pilasters	nr -	30	120,000.00	3,600,00
64.	6.2	CULVERTS				
14	707(1)	Laying and jointing of pipes, 600mm dia. (Single row)	m			
15	707(2)	Laying and jointing of pipes, 600mm dia. (Double row)	m,	100		
16	707(3)	Laying and jointing of pipes, 900mm dia. (Single row)	m	1008	21,000.00	21,168,00
17	707(8)	Sand fill	m ³			20.27
18		Grade C 15 Concrete	m ³	600	21,600.00	12,960,00
19		Grade C 20 Concrete	m ³			
20			m ³	1,598	30,800.00	49,218,40
21			. m ³			
22	1 - 4 1 1 1 1		kg	55,545	260.00	14,441,7
23			kg			
24	teritoria e	and the second s	m ³	1,152	13,750,00	15,840,0
25			m ²	1,478	1,410.00	2,083,9
26			m ²	4,538	1,350.00	6,126,3
27			m ²	3,825	1,350.00	5,163,7
	10 10 1		. m3		5,250.00	467,2
28			m ³		6,250.0	
25			m	293	1,900.0	1 2 4
3			nr			1
3	707(10	Supply Lay and joint 900X900X1650mm Precast box units		*0	17 2 2 2 2 2	
				, F. S.		
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TEM		DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
Bill	Pay	<u></u>	•	ļ		
	7.1	TOP SOILING		List oon T	350	5,250,00
1 8	301(1)	Furnish, Spread and compact top soil	· m²	15,000	350	5,250,00
	7.2	GRASSING			550	10 700 00
2.	302(1)	Grass sodding	m ²	25,000	550	13,750,00
100	7.3	RIP RAP PROTECTION FOR EMBANKMENT SLOPES				
3	804(1)	Dumped Rip Rap	m³	- 1		
	7.4	PAVED SIDE WALKS		X		
4	806(1)	Precast concrete slab (450x450x50mm) paving	m²	1,500	3,000	4,500,0
5	806(2)	Asphalt concrete surfacing to 50mm compacted thickness	; m²	300	2,500	750,0
	7.5	PRE CAST CONCRETE KERBS AND CHANNELS		f de		
6	807(1)	Standard kerb	m	1,500	3,500	5,250,0
7	807(2)	Flat /Edge Kerb	m .	200		
8	807(3)	Drop kerb	m	200	5,400	1,080,0
. 9	807(4)	Bridge kerb	m	120	3,500	420,0
10	808(1)	Guard stones (Road way, Culverts, Causeway and Bridges)	nr	770	5,000	3,850,0
1.11	7.6	ROAD MARKING				F. 11 (857)
3.0		Center line:				
11	810(1)	Continuous	m²	800	3,000	2,400,0
12	810(2)	Intermittent	m²	2,400	3,000	- 7,200,0
4.		Edge line				
13	810(3)	Continuous	m ²	6,400	3,000	19,200.0
14	810(4)	Pedestrian crossing	m ²	2,000	3,000	6,000:0
	810(5)	Road Studs	nr	500	3,500	1,750,0
13	7.7	ROAD SIGNS	19			
-	1	Reflective road sign:			1	
16	811/11		nr	625	12,500	7,812,
16	811(1)	Single pole, sign area up to 0.5m ² Double pole, sign area up to 2.0m ²	nr	15	35,000	525,
17		Chevron warning sign	nr.	200	10,100	1.4
19		Flag Type Sign	nr nr	10	: 10,100	· · · · · · · · · · · · · · · · · · ·
19	7.8	CONCRETE KERB INLETS		****		
20	1	Kerb inlet	ur	50	32,000	1,600
21		Precast concrete Kerb Inlet slab (800x500x50mm thick)	4 -		9,200	
21	7.9	KILOMETRE POSTS			1.	14,
20		Provide Install and paint new kilometre post	nr	20	21,000	420
22		Reposition existing kilometer post	nr	10	6,000	0 . 60
1		Paint existing kilometer post	nr	, a	2.80	W 1. 44
24		MAINTENANCE OF CARRIAGEWAY	1	1.5		
-	7.10		-		1	
2	5 1101(1)		m'	6,000	2,70	0 16,200
-		Cold mix (MC30), 20mm & less in depth		0,000		
2	3 1101(2)		. m	2,200	2,40	5,28
		Cold mix (MC30), 75mm & less in depth	1 1	.2,200	2,70	5,20
2	7 1101(1			2 900	3,90	3.51
		Cold mix (MC30), deeper than 75mm	1	3 200	5,20	
2	8 401(1)	Filling pot holes and patch repairs with gravel		200		111,354,10

BILL	No.8 : PROV	ISIONAL SUMS				
TEM	4	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
Bill	Páy	. Sessial from	35.00.200			
1	103(2)	Temporary by-passes for culverts, bridges and		91	*	v.!
		other strectures.	Item	Allow .	PS .	2,000,000.00
2	111(1)	Allow for provision of standards/technical literature as				
		required by the Engineer .	Item	Allow	PS	1,000,000.00
3	113.1(1)	Repairs to damages of existing services	Item	- Allow	PS	3,000,000.00
4	113.1(2)	Demolition / Rebuilding of property	Item	Allow	PS _. .	4,500,000.00
5	117.1(1)	Diversion, protection or removal of electrical services	Item	Allow	, PS ,	15,000,000.00
6	117.1(2)	Diversion, protection or removal of water services	Item	Allow	PS ·	7,500,000.00
7	117.1(3)	Diversion, protection or removal of telecommunication services	Item	Allow	· PS .	10,000,000.0
8	703(1)	Grade adjustment of existing manholds	Item	Allow	PS	2,000,000.0
9	1103(1)	Investigations and clearance of Landmines and unexploded ordnance on roads and bridges where necessary	Item	Allow	PS	3,000,000.0
10	118.12 (1)	Provide stationery for the engineer	20 P		PS	1,500,000.0
11	118.12 (2)	Provide stationery for the employer	100		PS	1,000,000.0
12	11. 11. 11. 18m. 19. 24.	Allow for Contractor's overheads and profit for above Provisional- Sum items.	%	50,500,000	30%	151500
1.	1. XA. 1.	To a series of the series of the series of			South to a second	
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			Lys + A			
•1.5			-		The House	1,75,00,34.55
	77.4			100000		
971			7.	A Company	1 14. 19. 19.	
	1 1	· 病别 在 医 " Y 安全 " 你 \$ * * * * * * * * * * * * * * * * * *				
	744			12.4		
Bill	No. 8 Carrie	ed to Summary	4.4	1 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11. 14 1	65,650,000.

BILL N	o.9: SCHEDULE OF DAY WORKS RATES		٠.	* *	
9.1 : LA	BOUR DAY WORKS	91.63		(F) (F)	100
All Qua	ntities are Provisional		1.1	8 8	
ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
1	Surveyor .	Hr -	30	1,200	36,000
2	Laboratory Technician (skilled)	Hr ,	•	, ,	
3	Carpenter	Hr	30	300	9,00
4	Mason	Hr .	30	300	9,00
5 ·	Steel Fixer	Hr	30 .	300	9,00
6	Semi-skilled workman	Hr	90	250	22,50
7	Unskilled workman (labourer)	Hr	90	180	16,20
	Shakinga wakanan (1888ana)	1. 1.			
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BILL NO	9.9 : SCHEDULE OF DAY WORKS RATES		. 1		
9.2 : EQ	UIPMENT DAY WORKS				
	ntities are Provisional	4	8 4 4		
ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
1 2 3 4 5 6	Bowser, water, up to 6,000 litres with Spray Bar Backhoe, wheeled, 50 - 100 HP Backhoe, tracked, 50 - 100 HP Motor grader, 120 to140HP Mobile Crane 25 tonnes Water pump with hoses, 50 to 100 mm outlet	Hr Hr Hr Hr	20 20 20 20 20 20 50	1,200.00 2,800.00 2,600.00 3,500.00 12,000.00	24,000.00 56,000.00 52,000.00 70,000.00 240,000.00
7 .8	Concrete mixer, over 0.50 cu.m., Generator, 10 to 50 KVA Poker Vibrator, petrol driven	Hr Hr	10 100 10	1,200.00 180,000.00 280.00	12,000.00 18,000,000.00 2,800.0

THE PRICED BILL OF QUANTITIES AND SCHEDULES

PRP 1 / C6 A



Year (CGA 101

中航国际斯里兰卡南方公路重建 PRP1&2 项目部 /

CATIC-ENG LANKA SOUTHERN DIVISION OF IMPROVEMENT & REHARILITATION OF PRP182

	21 0 22 12 10 0 0 11 12 14 1 12 1 12 10 10 10 11 11 11 10 10 10 10 10 10 10	F PRP1&2
Tel: (009	94) 770103060 E-mail: catic.lksd.08@gmail.com Address: No.28/6B, De.Fonseka Place	e, Colombo-5 CATIC
To:	Ms. Tissera Our Ref: <u>CATIC-ENG/LKSD/I</u>	PRP1/RDA-230
	Road Development Authority Date: 9 th Jul, 2014	
From:	Wen Zhong Lin Total Page:	1
	CATIC-ENG	
	Development Bank Funded Improvement and Rehabilitati	on of Priority Road
Contr	ract Package No: RDA/RNIP/PRP1/ C6A	
Subje	ects: Application for Performance Certificate	
Dear N	Madam,	
Accord	ding to the sub-clause 11.9 of the General Condition of Contract regard	ing the performance
certific	cate, the engineer shall issue the performance certificate within 28 days	after the Defects
Notific	cation Period.	
Up to 3	30th June,2014, the Defects Notification Period of PRP1/C6A were alre	eady expired, herewith
	oly for the Performance Certificate from you.	
Your e	early reply will be highly appreciated.	
Yours	Faithfully	
Wen Z	hong Lin	
Project	t Manager of PRP1	
China	National Aero Technology International Engineering Corporation	8 8 H S

CATIC-ENG/LKSD/PRP1/RDA-230

Improvement and Rehabilitation of Priority Road Project
Contract Package No - RDA/RNIP/PRP1/C6A

Kandy - Mahiyangana - Padiyathalawa Road Section from 73.15 km to 93.65 km Length of the Section 20.50km

(A 026) 2243 - 23+1622 - Xour

BILL OF QUANTITIES

SUMMARY		
No.	Description	AMOUNT(Rs.)
• 1	Preliminary and General 1 A	106,555,662.45
	1 B	41,144,400.00
2	Site Clearing	2,921,315.00
. 3	Earthworks	54,717,385.00
4	Road Pavement	. 858,206,445.00
5	Drainage .	97,147,402.04
6	Bridges and Culverts	24,334,440.00
7	Incidentals	101,587,670.00
8	Provisional Sums	26,422,500.00
7	Day works - Labour	35,880.00
.9	Day works -Equipment	485,880.00
	Day works - Materials	
ıb - Tot	al 1 :	1,313,558,979.49

Provisional s	sum for Price Escalation	on 8%	- Carrier & Carrier Constant		105,084,718.36
					131,356,302.15
					* *****
	der: Signature Name Address				
TENDER PE	RICE				1,550,000,000.00
	e added tax at 12% of the Tender Price er: Signature Name				
Value added	tax at 12% of the Te	nder Price	7.0 /	Tir.	186,000,000.00
			NA 116 1	80 (0) 0 (0) (0) (0)	C 280 180 950 8
Bidder:	Signature				
	Name				
	Address				
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	Name		1101	5	
	Address	_	181		
Witness 2	Signature		<u> </u>		
	Name				
	Address				

4

ITE	EM NO		LINUT	QUANTITY	RATE	AMOUNT (Rs)
Bill	Pay	DESCRIPTION	UNIT	QUANTITY	RAIE	AMOGNT (RS)
1	108.1(1)	Allow for cost of providing Performance Security	Item	Allow	Ls	20,000,000.00
-		Allow for the cost of providing Insurances	Item	· ~ Allow	Ls	11,000,000.00
3	108.3(1)	Mobilization of Contractor's facilities and Plant / Equipment	Item	Allow	Ls	5,000,000.00
4	108.3(2)	De-Mobilization of Contractor's facilities & Plant / Equipment	Item	Allow	Ls	3,000,000.00
5	108.7(1)	Provide and maintain Project sign board	nr	2	51,000.00	102,000.00
6	108.7(2)	Provide and maintain Plaques	nr	3	117,554.15	352,662.45
7	118.4(1)	Provide Main office for the Engineer.	nr	1	67,000.00	67,000.00
8	118.4(2)	Provide Secondary office for the Engineer.	nr	-	- 1	
9	118.4(3)	Provide office for the Employer	nr	X	58,000.00	58,000.00
10	118.6(1)	Provide Housing for the Employer	nr	2 1	58,000.00	58,000.00
11	118.6(1)	Provide Housing for the Engineer	nr '	1	58,000.00	58,000.00
		Vehicles for the Engineer				
12	118.8(1)	Purchase and supply Vehicle Type 1A as specified in appendix 4 of Volume 1	Item	Allow	PS	12,000,000.0
13	118.8(1)	Purchase and supply Vehicle Type 1B as specified in appendix 4 of Volume 2	Item	Allow	PS .	5,000,000.0
14	118.8(2)	Purchase and supply Vehicle Type 2 as specified in appendix 4 of Volume 1	Item	Allow	PS	9,000,000.0
15	118.8(3)	Purchase and supply Vehicle Type 3 as specified in appendix 4 of Volume 1	Item	Allow	PS	600,000.0
16	118.8(4)	Over heads and profit for supply of vehicle Type 1A & 1B	%	17,000,000.00	10%	1,700,000.0
17	118.8(5)	Over heads and profit for supply of vehicle Type 2	%	9,000,000.00	10%	900,000.0
18	118.8(6)	Over heads and profit for supply of vehicle Type 3	%	600,000.00	10%	60,000.0
19	118.8(10)	Vehicles for the Employer Purchase and supply Vehicle Type 1 as specified in appendix 4 of Volume 1	Item	Allow	PS	6,000,000.0
20	118.8(11)	Purchase and supply Vehicle Type 2 as specified in appendix 4 of	Item	Allow	PS '	-
21	118.8(12)	Over heads and profit for supply of vehicle Type 1	%	6,000,000.00	10%	600,000.
22	118.8(13	Over heads and profit for supply of vehicle Type 2	%	•	-	
23	118.9(1)	Provide Main Laboratory	nr	1	6,000,000.0	6,000,030.
24	118.9(2)	Provide Secondary Laboratory	nr			
25	118.9(3)	Provide Equipment for the Main Laboratory	Item	Allow	LS	11,000,000.
26	118.9(4)	Provide Equipment for the field Laboratory	Item	-	1	
27	118.10(1) Provide and maintain Survey equipment	Item	Allow	LS	8,000,000.
28	119(1)	Longitudinal and Cross sectional detailing of full pavement width	Item	Allow	LS	6,000,000
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ITE	M NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
u]	Pay				5-10-100	
		Management, Safety and Control and Temporary Diversion				
		of Traffic, including provision of a general traffic				
		management plan in accordance with Technical				
		Specifications Clause 112.8 of the General Items.	mon	18	124,950.00	2,249,100.00
		Progress Photographs	mon	18	12,550.00	225,900.00
3	27102000000	Maintain Main office for the Engineer.	mon	18	83,350.00	1,500,300.00
1	118.5(2)	Maintain Secondary office for the Engineer.	mon	-		-
5	118.5(3)	Maintain office for the Employer	mon	18	83,350.00	1,500,300.00
5	118.7(1)	Maintain Housing for the Employer	mon	18	83,350.00	1,500,300.00
7	118.7(1)	Maintain Housing for the Engineer	mon	18	83,350.00	1,500,300.00
		Vehicles for the Engineer				7
8	118.8(7)	Maintenance of Supplied Vehicle type 1A & 1B in Item 118.8 (1)	Veh-mor	54	142,000.00	7,668,000.00
9	118.8(8)	Maintenance of Supplied Vehicle type 2 in Item 118.8 (2)	Veh-mor	54	140,000.00	7,560,000.00
10	118.8(9)	Maintenance of Supplied Vehicle type 3 in Item 119.3 (3)	Veh-mor	72	58,500.00	4,212,000.00
		Vehicles for the Employer			Total Common Medical	
11	118.8(14)	Maintenance of Supplied Vehicle type 1 in Item 118.8 (10)	Veh-mo	n 18	142,000.00	2,556,000.00
12	118.9(15)	Maintenance of Supplied Vehicle type 2 in Item 118.9 (11)	Veh-mo			
13	118.9(5)	Maintenance of Main Laboratory	mon	18	48,000,00	864,000.00
14	118.9(6)	Maintenance of filed Laboratory	mon			
15	118,11(1)	Labourers (classified unskilled)	mon	108	35,600.00	3,844,800.00
16		Survey Assistant (classified skilled)	mon	18	49,500.00	891,000.00
17	118.11(3) Secretary	mon	18	41,650.00	749,700.00
18	118.11(4) Administrator/Cleark	mon	18	41,650.00	749,700.00
19	118.11(5	Office Assistants	mon	72	33,000.00	2,376,000.00
20		CAD Draughtsperson	mon	18	66,500.00	1,197,000.00
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EM		DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
in	Pay	7				
		CLEARING AND GRUBBING		15.045	55	2,521,475.00
1	201(1)	Clearing and grubbing	m ²	45,845		2,021,475.00
		Remove trees :			6660	279,720.00
2	201(2)	- Girth 600 to 1,200 mm	ur	42	9000	
3	201(3)	- Girth 1,200 to 2,000 mm	nr	-		-
4	201(4)	- Girth over 2000 mm	nr	-	•	
	Se.	Remove Branches :				
5	201(5)	- Girth 300 to 600 mm	nr	-		
6	201(6)	- Girth 600 to 1,200 mm	nr			
7	201(7)	- Girth over 1,200 mm	nr			-
		Remove Stumps:				<u>-</u>
8	201(8)	- Girth 600 to 1,200 mm	nr			
9	201(9)	- Girth 1,200 to 2,000 mm	nr			
-	201(10)	- Girth over 2000 mm	nr			-
13000	2.2	REMOVAL OF STRUCTURES & OBSTRUCTIONS				
11	202(1)	Dismantle & remove brick masonry structures			estice eggewings	
		(Provisional Quantity)	m ³	42	660	27,720.00
12	202(2)	Dismantle & remove Random Rubble masonry structures				-
		(Provisional Quantity)	m ³	35	980	34,300.00
13	202(3)	Dismantle & remove concrete structures				
57.88		(Provisional Quantity)	m ³	35	1660	58,100.0
14	202(4)	Dismantle & remove Dress stone mosonary structures				-
		. (Provisional Quantity)	m³			
15	202(5)	Remove fencing (Provisional Quantity)	m			
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- 3	TEM	1		QUANTITY	RATE	AMOUNT (Rs)
ill	Pay	DESCRIPTION	UNIT	QUANTITY	KAIE	AMOUNT (ICS
	3.1	ROADWAY EXCAVATION				
1	301(1)	Roadway excavation , soil suitable for fill	m³			
2	301(2)	Roadway excavation, boulders (Provisional Quantity)	m³			* s.
3	301(3)	Roadway excavation, hard rock (Provisional Quantity)	m³			
4	301(4)	Roadway excavation, unsuitable soil	m³	4,071	370	1,506,270.00
5	301(5)	Roadway excavation, sub grade replacement	m³	2,072	1040	2,154,880.0
6	301(6)	Road pavement excavation	m ³	2,992	370	1,107,040.0
-	301(7)	Prepare sub grade in cut areas	m²			
	3.2	STRUCTURE EXCAVATION AND BACKFILL				
8	302(1)	Excavation & backfill for structures with suitable soil	m ³			
-	302(2)	Excavation and Backfill for structures in unsuitable soil	m³	23,706	1080	25,602,480.0
	302(3)	Excavation in Boulders for structures (Provisional Quantity)	m³			
-	302(4)	Excavation in Hard rock for structures (Provisional Quantity)	m³			
•	3.3	EMBANKMENT CONSTRUCTION				
12	304(1)	Trim, level and compact roadbed	m ²	6,958	40	278,320.0
	304(2)	Embankment construction, Type 1	m³	10,775	845	9,104,875.0
_	304(3)	Embankment construction, Type 2	m ³	19,184	780	14,963,520.0
_	304(4)	Boulder packing for soft ground treatment	m³			
10	3.4	CHANNEL EXCAVATION				
16	307(1)	Channel excavation soil suitable for fill	m ³			
17		Channel excavation, boulders (Provisional Quantity)	m ³		N 14	
V 800	307(3)	Channel excavation, hard rock (Provisional Quantity)	m ³	1		6.8 At .
_	307(4)	Channel excavation, unsuitable soil	m ³			
13	307 (4)	Charmer excertation, dispersage con			1.0 0.74	
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1	TEM	DECODIOTION!	LINUT	QUANTITY	RATE	AMOUNT (Rs)
ill	Pay	DESCRIPTION	UNIT	QUANTITY	RATE	AWOON (NS)
	4.1	GRANULAR PAVEMENT				
1 1	401(1)	Sub base as compacted in position	m³	11,825	1,140.00	13,480,500.00
2	402(1)	Provide and place stabilized gravel base of 200mm thick	m ³			
3	402(3)	Cement	tonne			•
4	405(1)	Dense graded aggregate base	m ³	41,960	7,000.00	293,720,000.00
	4.2	RECONSTRUCTION OF EXISTING PAVEMENT				
5	408(1)	Scarify and remove existing bitumen layer	m ²	45,865	240.00	11,007,600.00
	4.3					-
6	409(1)	Earthen shoulder as compacted in position	m³	8,350	910.00	7,598,500.00
-	402(1)	Stabilized gravel shoulder as compacted in position	m ³			-
10	402(3)	Cement	tonne			-
-	409(2)	Dense graded aggregate shoulders as compacted in position	m ³	139	7,000.00	973,000.00
-	409(3)	Trench excavtion for cross shoulder drain	m ³			-
_	409(4)	Porous material for cross shoulder drain	m ³			-
	1710(1)	Geotextile for cross shoulder drain	m ²			•
	4.4	PRIME COAT AND TACK COAT			(7)	-
13	501(1)	Bituminous Prime Coat using MC 30 at 1 litre per m ²	m ²	186,139	245.00	45,604,055.00
14	501(2)	Extra over for MC 30	Itr			
	502(1)	Bituminous Tack Coat (Cationic Emulsion grade		3.0		
		CRS1 at 0.3 litre/m²)	- m²	186,139	110.00	20,475,290.00
16	502(2)	Extra over for CRS 1	Itr			
	4.5	BITUMINOUS SURFACING				
17	505(1)	Bitumen Grade (80-100)	Itr	H 5.		
18	505(2)	Kerosene/ diesel or other approved cutter	Itr			-
19		20mm chips	m³			
20		10mm chips	m ³			-
	506(1)	Asphalt concrete in wearing course 50mm compacted thickness	m ²	186,139	2,500.00	465,347,500.0
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-		Fig. 18- 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1				# #
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-	1110 100	arried to Summary				858,206,445.

Г	TEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
ı	Pay					
-1-	5.1	ROADSIDE AND LEAD AWAY SURFACE DRAINS				
T		Concrete :	1		44.050.00	4,992,696.53
1	001(1)	Grade C 15	m ³	348	14,350.00	30,356,290.77
	001(2)	Grade C 20	m ³	1,740	17,450.00	1,857,631.03
	006(1)	Random rubble masonry	m ³	198	9,400.00	503,931.82
1	1006(2)	Plastering, 1:3 cement sand mix, 16mm thick	m ²	593	850.00	303,931.02
1		Precast concrete cover slab :	_			10 107 502 10
5	701(3)	600 X 500 X 100mm thick	m ²	1,740	6,000.00	10,437,693.10
-	701(4)	800 X 600 X 125mm thick	m ²	838	8,000.00	6,707,957.43
-	1002(1)	Tor Steel reinforcement	kg	34,792	260.00	9,046,000.69
-		Form work				-
8	1008(1)	Formwork smooth finish	m ²	10,438	1,290.00	13,464,624.10
9	1008(2)	Formwork rough finish	m ²	17,396	1,120.00	19,483,693.79
ارد	5.2	SUB-SURFACE DRAINS (UNDERDRAINS)				•
10	702(1)	160mm dia. PVC Pipe (Type 600)	. m			*-4
11	702(1)	Graded aggregate maximum size 37.5mm	m ³			
-	1710(1)	Provide and place Geyolextile fillter	m ²			
12	5.3	UNDER GROUND PIPE DRAIN				-
42	704(1)	Inlet to line drain PVC pipe (Type 600) 100mm dia.	m	_		
13	5.4	CLEANING AND RESHAPING OF EARTH DRAINS				-
14		W. M. Marine	m			22 14 1 17
14	5.5	CLEANING AND REPAIRING OF BUILT-UP DRAINAGES	YSTEM			
15	1302(1)	Clean, desilt & repair built-up (lined) drains.	m		5	
15	5.6	CLEANING, DESILTING & REPAIRING OF CULVERTS			e.,	y y=+1 1
16	1	Pipe Culverts	n	32	5800	
17		Other Culvert type	n	r 16	6950	111,231.03
1,	1303(2)	Outer ourser yes			+	
			-			
-						97,147,402.0

	TEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
Bill	Pay	DESCRIPTION		1	-	
-	6.1	STRUCTURES				
		Concrete:		- X.		
1	1001(1)	Grade C 15	m³			
2	1001(3)	Grade C 25	m³			
3	1001(4)	Grade C 30	m³			
4	1002(1)	Tor Steel reinforcement	kg			
5	1006(1)	Random rubble masonry	m³			
		Formwork				
6	1008(1)	Formwork smooth finish	m²			
7	1008(2)	Formwork rough finish	m²			
8	705(1)	100mm crushed stone back fill material	m³.			
9	705(2)	37.5mm maximum size crushed stone - filter material	m³		-	
10	706(1)	Weep hole, 75mm dia. PVC pipe (Type 600)	m			
11	706(2)	Rainwater outlet/Duts 160mm dia PVC pipe (Type 600)	m			
12	814(1)	Hand Rails and uprights	m			
13	814(2)	End pilasters	nr			
•	6.2	CULVERTS				
14	707(1)	Laying and jointing of pipes, 600mm dia. (Single row)	m.	60	18,300.00	1,098,000.00
15	707(2)	Laying and jointing of pipes, 600mm dia. (Double row)	m			-
16	707(3)	Laying and jointing of pipes, 900mm dia. (Single row)	m	29	29,500.00	855,500.00
17	707(8)	Sand fill	m ³			
18	1001(1)	Grade C 15 Concrete	m ³	145	14,300.00	2,073,500.00
19	1001(2)	Grade C 20 Concrete	m ³	244	17,450.00	4,257,800.00
20	1001(3)	Grade C 25 Concrete	m³			
21	1001(4)	Grade C 30 Concrete	m ³			7.2
22	1002(1)	Tor Steel reinforcement	kg	9,742	260.00	2,532,920.00
23	1002(1)	20 mm Mild Steel dowels at 500 mm c/c	kg	70	300.00	21,000.00
24	1006(1)	Random rubble masonry	m ³	1,063	9,300.00	9,885,900.00
25	1006(1)	Plastering, 1:3 cement sand mix, 16mm thick	m ²	1,948	790.00	1,538,920.00
26	1008(1)	Formwork smooth finish	m ²	70	3,800.00	266,000.0
	-	Formwork rough finish	m ² ·	· 104 ·	2,400.00	249,600.0
27		100mm crushed stone back fill material	m ³	303	2,600.00	
28	-	37.5mm maximum size crushed stone - filter material	m ³	-70	6,000.00	420,000.0
29		Weep hole, 75mm dia. PVC pipe (Type 600)	m	139	2,500.0	
30			nr			
31	707(10)	Supply,Lay and joint 900X900X1650mm Precast box units				
-					1	



TEM		DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
Bill	7.1	TOP SOILING		1		
1		Furnish, Spread and compact top soil	m ²	34,792	800.00	27,833,600.00
1	7.2	GRASSING		54,752		27,000,000.00
2	-322		m ²	34,792	800.00	27,833,600.00
2	802(1) 7.3	Grass sodding RIP RAP PROTECTION FOR EMBANKMENT SLOPES	m		800.00	27,000,000.00
	20.700		m ³			
	7.4	Dumped Rip Rap PAVED SIDE WALKS	m	1		
_	U. (1000)		m ²	2,018	1,700.00	3,430,600.00
-	806(1)	Precast concrete slab (450x450x50mm) paving	m ²	2,010	1,700.00	0,430,000.00
5	806(2)	Asphalt concrete surfacing to 50mm compacted thickness	m	-		
	7.5	PRE CAST CONCRETE KERBS AND CHANNELS	-	1.500	2 550 00	4.036.650.00
6	807(1)	Standard kerb	m	1,583	2,550.00	4,036,650.00
7	807(2)	Flat /Edge Kerb	m	397	1,930.00	766,210.00
8	807(3)	Drop kerb	m	397	2,400.00	952,800.00
9	807(4)	Bridge kerb	m		1000.00	
10	808(1)	Guard stones (Road way, Culverts, Causeway and Bridges)	nr	237	4,900.00	1,161,300.00
	7.6	ROAD MARKING		1		
		Center line :	-		0.500.00	1705 000 00
	810(1)	Continuous	m ²	696	2,580.00	1,795,680.00
12	810(2)	Intermittent	m ²	696	2,580.00	1,795,680.00
	, r	Edge line:	-		1.1.1	<u> </u>
_	810(3)	Continuous	m ²	4,175	2,400.00	10,020,000.00
14	810(4)	Pedestrian crossing	m ²	807	3,400.00	2,743,800.00
15	810(5)	Road Studs	nr	174	3,100.00	539,400.00
	7.7	ROAD SIGNS				•
		Reflective road sign :				
16	81-1(1)	Single pole, sign area up to 0.5m ²	nr	216	18,300.00	3,952,800.00
17	811(2)	Double pole, sign area up to 2.0m ²	nr			•
18	811(3)	Chevron warning sign	nr	52	24,000.00	1,248,000.00
19		Flag Type Sign	ut			
	7.8	CONCRETE KERB INLETS				
20	813(1)	Kerb inlet	nr	104	7,900.00	821,600.00
21	701(2)	Precast concrete Kerb Inlet slab (800x500x50mm thick)	m ²	87	13,000.00	1,131,000.0
	7.9	KILOMETRE POSTS	-		1	-
22	815(1)	Provide ,Install and paint new kilometre post	nr	3	15,000.00	45,000.0
23	815(2)	Reposition existing kilometer post	nr	17	1,420.00	24,140.0
24	815(3)	Paint existing kilometer post	nr	17	740.00	12,580.0
	7.10	MAINTENANCE OF CARRIAGEWAY				-
25	1101(1)	Filling pot-holes and patch repairs with Asphalt concrete				-
		Cold mix (MC30), 20mm & less in depth	m ²	2,373	1,240.00	2,942,520.0
26	1101(2)	Filling pot-holes and patch repairs with Asphalt concrete				-
		Cold mix (MC30), 75mm & less in depth	m ²	1,583	2,540.00	4,020,820.0
27	1101(1)	Filling pot holes and patch repairs with Asphalt concrete				-
		Cold mix (MC30), deeper than 75mm	m ²	1,583	2,830.00	4,479,890.0
28	401(1)	Filling pot holes and patch repairs with gravel	m ³			
Bit	No. 7 Ca	rried to Summary				101,587,670.0

(BC)

Secondary Laboratory

B. Secondary laboratory	
Laboratory of gross floor area 80 sq. m. located adjacent to the Secondary Office	
(Resident Engineer's Office)	
Bathroom	1
Kitchen	1
Store room	
B. Furnishings and Equipment	1
Office dasks 10 v70v7	
Office desks 120x70cm and each having at least 3 drawers, one of which is lockable. Computer desks.	2
	1
Typist chairs, gas lift height adjustment, arm rests.	6
Bench Stools	6
Steel filing cabinets with four drawers.	2
Book shelves, 1m.x 2m. with 3 shelves and lockable cupboard at base.	1
Storage cabinets 1mx2m, two door, lockable.	1
Laboratory benches sufficient for all testing equipment	As
	reqd.
Laboratory sinks with cold tap (minimum) Bulletin board 0.9x0.6m.	2
	1
White marker board 1.2mx0.8m.	1
IBM Compatible PC, 2.4Ghz processor, 256 Mb DDR RAM, 40Gb Hard Drive, DVD-CD	77
/RW, Modem, 101 Key English Key Board, 2 x USB ports, VGA card, 17" flat screen	1
monitor, Microsoft Mouse, with licensed MS Windows XP and MS Office Professional	
Uninterrupted Power Supply, On line unit 1 kVA with sealed maintenance free battery and	1
60 minutes backup time.	-1
A4 laser jet printer	- 1
C. Safety Equipment	
Safety helmets.	
Water/ windproof jacket and over trousers.	6
Motorcycle crash helmets.	. 6
	4
Fire extinguishers - one per room	7
First aid box – stocked.	1
E. General Laboratory Equipment	
Rubber mallet	5
Steel scoops	8
Flasks	
2 No. 400 - 1 0 No. 950 - 1 0 No. 950	8
2 Nos. 100 ml, 2 Nos. 250 ml, 2 Nos. 500 ml, and 2 Nos. 1000 ml	***
Measuring Cylinders - 3 Nos. 500 ml, 3 Nos. 1000 ml., 3 Nos 250 ml	9
Vernier Calipers – 150 mm	1
Steel ruler – 300 mm	3
Sample splitter – 50 mm	1
Sample splitter – 12 mm	1
Aluminium trays 24 x 40 cm	
Electric forced draught oven – capacity 0.15 cu.m.	12
Solution balance capacity 20 kg, graduation 1 gramme	2
Filed scale balance capacity = 35 kg	2
	2
Triple beam balance capacity 10 kg accuracy 0.1 gramme	2
Triple beam balance capacity 3 kg accuracy 0.01 gramme	2
Triple beam balance capacity 2610 grams	2
Triple beam balance capacity 311 grams	2
Electronic balance 1000 gm capacity accurate to 0.01 grams	1
Electronic balance of 1000 gm capacity, accurate to 0.1 gram with a tare correction of not	3
Electronic balance of 1000 gm capacity, accurate to 0.1 gram with a tare correction of not less than 100 gramme.	
less than 100 gramme.	
Electronic balance of 1000 gm capacity, accurate to 0.1 gram with a tare correction of not less than 100 gramme. Glass plates – 400 x 600 x 6 mm Linear shrinkage moulds – 250 mm	4

TEM		DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
Bill Pay		DESCRIPTION	UNIT QUANTITY			
1	103(2)	Temporary by-passes for culverts, bridges and				
	40.5	other strectures.	Item	- Allow		575,000.00
2	111(1)	Allow for provision of standards/technical literature as	1			*
		required by the Engineer	Item	Allow		500,000.00
3	113.1(1)	Repairs to damages of existing services	Item	Allow		1,000,000.00
4	113.1(2)	Demolition / Rebuilding of property	Item	Allow		1,000,000.00
5	117.1(1)	Diversion, protection or removal of electrical services	Item	Allow		4,000,000.00
6	117.1(2)	Diversion, protection or removal of water services	Item	Allow		2,000,000.00
7	117.1(3)	Diversion, protection or removal of telecommunication services	Item	Allow		6,000,000.00
8	703(1)	Grade adjustment of existing manholes	Item	Allow		2,000,000.00
9	1103(1)	Investigations and clearance of Landmines and unexploded ordnance on roads and bridges where necessary	Item	Allow		1,000,000.00
10	118.12(1)	Provide stationery for the engineer				1,500,000.00
11	118.12(2)	Provide stationery for the employer				750,000.00
12		Allow for Contractor's overheads and profit for above Provisional Sum items.	%	20,325,000	30%	6,097,500.00
37-	0.000		-			10 10 10 10 10 10 10 10 10 10 10 10 10 1
	17		7	1 11		- particular
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_	1 .	ried to Summary			1	26,422,500.0



	BOUR DAY WORKS BOUR DAY WORKS				
	BOOK DAT WORKS				
I Qua	ntities are Provisional			1	
TEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
1	Surveyor	Hr	20	220.00	4,400.00
2	Laboratory Technician (skilled)	Hr	20	350.00	7,000.00
3	Carpenter	Hr	20	168.00	3,360.00
4	Mason	Hr	20	168.00	3,360.00
5	Steel Fixer	Hr	20	168.00	3,360.00
6	Semi-skilled workman	Hr	60	130.00	7,800.00
7	Unskilled workman (labourer)	Hr	60	110.00	6,600.00
	Official (assets)				
1012	1 (0.0 (1) 2 4 (1) 1 (1) 1 (1 1 1 1 1 1 1 1 1 1 1 1 1			Haring Street	
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					35,880

BILL N	0.9 : SCHEDULE OF DAY WORKS RATES				
0.2 : EC	QUIPMENT DAY WORKS	Technology w	,		
All Qua	ntities are Provisional				
ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
1	Bowser, water, up to 6,000 litres with Spray Bar	Hr	20	1,120.00	22,400.00
2	Backhoe, wheeled, 50 - 100 HP	Hr	-20	2,236.00	44,720.00
3	Backhoe, tracked, 50 - 100 HP	Hr	20	2,516.00	50,320.00
4	Motor grader, 120 to140HP	Hr	20	4,472.00	89,440.00
5	Mobile Crane 25 tonnes	Hr	20	5,100.00	102,000.00
6	Water pump with hoses, 50 to 100 mm outlet	Hr	50	1,120.00	56,000.00
7	Concrete mixer; over 0.50 cu.m.	Hr	10	700.00	7,000.00
. 8	Generator, 10 to 50 KVA	Hr	100	1,120.00	. 112,000.00
9	Poker Vibrator, petrol driven	Hr	10	200.00	2,000.00
Fauir	ment Day works Carried to forward :				485,880.0

THE PRICED BILL OF QUANTITIES AND SCHEDULES

PRP 1 / C8

Improvement and Rehabilitation of Priority Road Project Contract Package No: RDA/IRPRP1/CDB/C8

Kalkudah Road (B184) & Kalkuda- Valaichenai Road (B185)

	BILL	OF	QUANTITIES
--	------	----	------------

	SUMMARY		B185	TOTAL	
No.	Description	B184	D103		
. 1	Preliminary and General 1 A	65,952,176.70		65,952,176.70	
	1 B	21,162,000.00		21,162,000.00	
2	Site Clearing	924,850.00	1,300,550.00	2,225,400.00	
	Earthworks	10,182,500.00	10,994,250.00	21,176,750.00	
3	Road Pavement	197,827,500.00	171,729,750.00	369,557,250.00	
4		8,008,501.00	40,803,840.00	48,812,341.00	
5	Drainage Driveds	14,569,820.00	10,616,201.20	25,186,021.20	
6	Bridges and Culverts	8,810,000.00	18,529,600.00	27,339,600.00	
7	Incidentals	6,500,000.00	4,563,000.00	11,063,000.00	
8	Provisional Sums	69,300.00	69,300.00	138,600.00	
9	Day works - Labour		303,600.00	607,200.00	
3	Day works -Equipment	303,600.00		one to a five a position of	
ub - To	tal 1 :	334,310,247.70	258,910,091.20	593,220,338.90	

		and the second s		
	um for Price Escalation 8%	26,744,819.82	20,712,807.30	47,457,627.11
Provisional S	s at 10% of Sub - Total 1	33,431,024.77	25,891,009.21	59,322,033.98
Jontingencie	S at 10 /6 01 500 - 10 tol. 1			
Design Char	ges			
Less discour				
TENDER PF	RICE	394,486,092.29	305,513,907.71	700,000,000.00
In words	Rupees :			1
			· · · · · · · · · · · · · · · · · · ·	
				84,000,000.00
Value added	d tax at 12% of the Tender Price	47,338,331.07	36,661,668.91	84,000,000.00
Bidder:	Signature			
Diaco	Name	~		
	Address	2X2		
Witness 1	Signature	21/		
	Name			
	Address	J	-0210	
Witness 2	Signature			
	Name			
	Address			

Improvement and Rehabilitation of Priority Road Project Contract Package No: RDA/IRPRP1/CDB/C8 Kalkudah Road - B184 (0 to 5.63 Km)

BILL OF QUANTITIES

``	SUMMARY	AMOUNT (Sri Lanka Rupees)
No.	Description	AMOUNT (SIT Lanka Nupecco)
1	Preliminary and General 1 A	65,952,176.70
	1 B	21,162,000.00
		924,850.00
2	Site Clearing	10,182,500.00
3	Earthworks	197,827,500.00
4	Road Pavement	8,008,501.00
5	Drainage	14,569,820.00
6	Bridges and Culverts	8,810,000.00
7	Incidentals	6,500,000.00
8	Provisional Sums	69,300.00
	Day works - Labour	
9	Day works -Equipment	303,600.00
	Day works - Materials	
ub - To		334,310,247.70

. 5: 5-4	tion 99/	26,744,819.82
um for Price Escala	(1011 670	33,431,024.77
es at 10% of Sub - I	otal 1	
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		004 400 000 20
RICE		394,486,092.29
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1 1-1 of 120/ of the	Tender Price	47,338,331.07
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Signature		
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Name	112-	dois
	um for Price Escala es at 10% of Sub - T ges nt RICE Rupees: d tax at 12% of the Signature Name Address Signature Name Address Signature Signature Signature Signature Signature Signature Signature Signature	um for Price Escalation 8% es at 10% of Sub - Total 1 ges int RICE Rupees: d tax at 12% of the Tender Price Signature Name Address Signature Name Address Signature Name Address Signature Name Address Signature

Address

ITI	EM NO			A	5475	AMOUNT (Rs)
Bill	Pay	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (KS)
1	108.1(1)	Allow for cost of providing Performance Security	LS		6,050,000.00	6,050,000.00
2	108.2(1)	Allow for the cost of providing Insurances	LS		3,520,000.00	3,520,000.00
3	108.3(1)	Mobilization of Contractor's facilities and Plant / Equipment	LS		2,250,000.00	2,250,000.00
4	108.3(2)	De-Mobilization of Contractor's facilities & Plant / Equipment	LS		730,176.70	730,176.70
5	108.7(1)	Provide and maintain Project sign board	nr	4	60,000.00	240,000.00
6	108.7(2)	Provide and maintain Plaques	nr	6	42,000.00	252,000.00
7	118.4(1)	Provide Main office for the Engineer.	nr	1	1,450,000.00	1,450,000.00
8	118.4(2)	Provide Secondary office for the Engineer.	nr			
9	118.4(3)	Provide office for the Employer	nr	1	1,450,000.00	1,450,000.00
10	118.6(1)	Provide Housing for the Employer	nr			
11	118.6(1)	Provide Housing for the Engineer	nr	1	1,450,000.00	1,450,000.00
		Vehicles for the Engineer				
12	118.8(1)	Purchase and supply Vehicle Type 1A as specified in appendix 4 of Volume 1	P.Sum			6,000,000.00
	118.8(1)	Purchase and supply Vehicle Type 1B as specified in appendix 4 of Volume 1	P.Sum			10,000,000.00
13	118.8(2)	Purchase and supply Vehicle Type 2 as specified in appendix 4 of Volume 1	P,Sum			3,000,000.00
14	118,8(3)	Purchase and supply Vehicle Type 3 as specified in appendix 4 of Volume 1	P.Sum			300,000,00
15	118.8(4)	Over heads and profit for supply of vehicle Type 1A & 1B	%	16,000,000.00	10%	1,600,000.00
16	118.8(5)	Over heads and profit for supply of vehicle Type 2	%	3,000,000,00	10%	300,000.00
17	118.8(6)	Over heads and profit for supply of vehicle Type 3	. %	300,000.00	10%	30,000.00
		Vehicles for the Employer				
18	118.8(10)	Purchase and supply Vehicle Type 1 as specified in appendix 4 of Volume 1	P.Sum			6,000,000.00
19	118.8(11)	Purchase and supply Vehicle Type 2 as specified in appendix 4 of Volume 1	P.Sum			
20	118.8(12)	Over heads and profit for supply of vehicle Type 1	%	6,000,000.00	10%	600,000.00
21	118.8(13)	Over heads and profit for supply of vehicle Type 2	%			
22	118.9(1)	Provide Main Laboratory	nr	1	1,500,000.00	1,500,000.00
23	118.9(2)	Provide Secondary Laboratory	nr			
24	118.9(3)	Provide Equipment for the Main Laboratory	L.Sum		9,700,000.00	9,700,000.0
25	118.9(4)	Provide Equipment for the field Laboratory	L.Sum			0.0
26	118.10(1)	Provide and maintain Survey equipment	L.Sum	\$250 m mx	3,500,000.00	3,500,000.0
27	119(1)	Longitudinal and Cross sectional detailing of full pavement width	km	10.05	600,000,00	6,030,000.0
_						
-	1					188



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IT	EM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
in	Pay		370000			
1		Management, Safety and Control and Temporary Diversion				
		of Traffic, including provision of a general traffic				
	7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	management plan in accordance with Technical				
		Specifications Clause 112.8 of the General Items.	mon	12	83,500.00	1,002,000.00
2	108.4(1)	Progress Photographs	mon	12	17,000.00	204,000.00
3	118.5(1)	Maintain Main office for the Engineer.	mon	12	125,000.00	1,500,000.00
4	118.5(2)	Maintain Secondary office for the Engineer.	mon			
5	118.5(3)	Maintain office for the Employer	mon	12	84,000,00	1,008,000.00
6	118.7(1)	Maintain Housing for the Employer	mon			
7	118.7(1)	Maintain Housing for the Engineer	mon	12	67,000.00	804,000.00
		Vehicles for the Engineer				•
8	118.8(7)	Maintenance of Supplied Vehicle type 1 in Item 118.8 (1)	Veh-mon	36	125,000.00	4,500,000.00
9	118.8(8)	Maintenance of Supplied Vehicle type 2 in Item 118.8 (2)	Veh-mon	12	100,000.00	1,200,000.00
10	118.8(9)	Maintenance of Supplied Vehicle type 3 in Item 118.8 (3)	Veh-mon	24	92,000.00	2,208,000.00
		Vehicles for the Employer			a ·	
11	118.8(14)	Maintenance of Supplied Vehicle type 1 in Item 118.8 (10)	Veh-mor	12	£125,000.00	1,500,000.00
12	118.9(15)	Maintenance of Supplied Vehicle type 2 in Item 118.9 (11)	Veh-mor	1		-
13	118.9(5)	Maintenance of Main Laboratory	mon	12	85,000.00	1,020,000.00
14	118.9(6)	Maintenance of filed Laboratory	mon			1
15		1 1 1-15 1 15 1 15 1 15 1 15	mon	48	50,000.00	2,400,000.00
16	110.11(1	Survey Assistant (classified skilled)	mon	24 · ·	50,000.00	1,200,000.00
188	-			12	42,000.00	504,000.00
17		Secretary Administrator/Cleark	mon	12	42,000.00	504,000.00
19) Office Assistants	mon	24	42.000.00	1,008,000.00
20	-		mon	12	50,000.00	600,000.00
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-	10 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
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EM		DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
III	Pay					
	2.1	CLEARING AND GRUBBING		1 0000 1	84.00	252,000.00
1 2	01(1)	Clearing and grubbing	m ²	3,000 .	64.00	252,000.00
		Remove trees :			2 200 00	- 41,500.00
2 2	201(2)	- Girth 600 to 1,200 mm	nr	5	8,300.00	83,000.00
3 2	201(3)	- Girth 1,200 to 2,000 mm	nr	5	16,600.00	42,000.00
4 2	201(4)	- Girth over 2000 mm	nr	1	42,000.00	42,000.00
7		Remove Branches:				
5	201(5)	- Girth 300 to 600 mm	nr			
6	201(6)	- Girth 600 to 1,200 mm	nr			
7	201(7)	- Girth over 1,200 mm	nr			
		Remove Stumps:			40.000.00	83,000.00
8	201(8)	- Girth 600 to 1,200 mm	nr	5	16,600.00	
9	201(9)	- Girth 1,200 to 2,000 mm	nr	5	33,300.00	166,500.00
10	201(10)	- Girth over 2000 mm	nr	1	83,300.00	83,300.00
	2.2	REMOVAL OF STRUCTURES & OBSTRUCTIONS		_	*	
11	202(1)	Dismantle & remove brick masonry structures			1,000,00	6,650.00
		(Provisional Quantity)	m ³	5	1,330.00	6,650.00
12	202(2)	Dismantle & remove Random Rubble masonry structures			1 070 00	133,600.00
		(Provisional Quantity)	m ₃	80	1,670.00	133,600.00
13	202(3)	Dismantle & remove concrete structures		_	0.000.00	33,300.0
		(Provisional Quantity)	m ₃	10	3,330.00	33,300.0
14	202(4)	Dismantle & remove Dress stone mosonary structures				
		. (Provisional Quantity)	m³		-	
15	202(5)	Remove fencing (Provisional Quantity)	m			
_						
	100					-
					_	
			_		-	77.
-					-	
					-	
-					-	
-	-					924,850



	ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
Bill	Pay	DESCRIPTION	· · · · · ·			
	3.1	ROADWAY EXCAVATION				
1	301(1)	Roadway excavation , soil suitable for fill	m ³			· · · · · · · · · · · · · · · · · · ·
2	301(2)	Roadway excavation, boulders (Provisional Quantity)	m ³			
3	301(3)	Roadway excavation, hard rock (Provisional Quantity)	m³			
4	301(4)	Roadway excavation, unsuitable soil	m ³	500	920.00	460,000.00
5 .	301(5)	Roadway excavation, sub grade replacement	m ³	100	920.00	92,000.00
6	301(6)	Road pavement excavation	m³	30	1,250.00	37,500.00
7	301(7)	Prepare sub grade in cut areas	m ²	32,000	125.00	4,000,000.00
	3.2	STRUCTURE EXCAVATION AND BACKFILL				
8	302(1)	Excavation & backfill for structures with suitable soil	m ³			
9	302(2)	Excavation & backfill for structures in unsuitable soil	m³			
10	302(3)	Excavation in Boulders for structures (Provisional Quantity)	m ³			
11	302(4)	Excavation in Hard rock for structures (Provisional Quantity)	m ³			
_	3.3	EMBANKMENT CONSTRUCTION				
12	304(1)	Trim, level and compact roadbed	m ²			
13	304(2)	Embankment construction, Type 1	m³	2,600	1,830.00	4,758,000.00
14		Embankment construction, Type 2	m ³			
	304(4)	Boulder packing for soft ground treatment	m³			
	3.4	CHANNEL EXCAVATION				1
16	307(1)	Channel excavation soil suitable for fill	- m ³	500	750.00	375,000.0
17		Channel excavation, boulders (Provisional Quantity)	m³			
18	_	Channel excavation, hard rock (Provisional Quantity)	m ³	+		
19		Channel excavation, unsuitable soil	m³.	500	920.00	460,000.0
						-
				4		
		erried to Summary :				10,182,500.





ľ	TEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
Bill	Pay					
	4.1	GRANULAR PAVEMENT				
1 4		Sub base as compacted in position	m ³	3,500 •	2,830.00	9,905,000.00
2	102(1)	Provide and place stabilized gravel base of 200mm thick	m ³			-
3	402(3)	Cement	tonne			
4	405(1)	Dense graded aggregate base	m³.	7,800	8,000.00	62,400,000.00
-	4.2	RECONSTRUCTION OF EXISTING PAVEMENT				
5	408(1)	Scarify and remove existing bitumen layer	m ²	23,200.00	100.00	2,320,000.00
	4.3	SHOULDERS				
6	409(1)	Earthen shoulder as compacted in position	m³	3500	2,000.00	7,000,000.00
7	402(1)	Stabilized gravel shoulder as compacted in position	m ³			
_	402(3)	Cement	tonne			
	409(2)	Dense graded aggregate shoulders as compacted in position	m³			
	409(3)	Trench excavtion for cross shoulder drain	m ³			
_	409(4)	Porous material for cross shoulder drain	m³			
	1710(1)	Geotextile for cross shoulder drain	m ²			
	4.4	PRIME COAT AND TACK COAT			,	
13	501(1)	Bituminous Prime Coat using MC 30 at 1 litre per m ²	m²	40,600	300.00	12,180,000.00
.14	501(2)	Extra over for MC 30	ltr			
15	502(1)	Bituminous Tack Coat (Cationic Emulsion grade				
730	1	CRS1 at 0.3 litre/m²)	m ²	20,300	75.00	.1,522,500.00
16	502(2)	Extra over for CRS 1	ltr-	7 %	6.9	
	4.5	BITUMINOUS SURFACING	1.1		4	2
17	505.1	Bitumen Grade (80-100)	Itr			
18	505.2	Kerosene/ diesel or other approved cutter	"Itr			
19	505.3	20mm chips	m ³			
20	505.4	10mm chips	m³			
21	506.1	Asphalt concrete in wearing course 50mm compacted thickness	m ²	40,600	2,500.00	
22	506.2	Asphalt concrete in binder/ Correction course	MT	50	20,000	1,000,00
		rried to Summary				197,827,500.00

6.1 100 100 100 100 100 100 70 70 70 70 70 70 70 70 70	S S S S S S S S S S S S S S S S S S S	DESCRIPTION TRUCTURES encrete: Grade C 15 Grade C 25 Grade C 30 or Steel reinforcement Random rubble masonry Formwork Formwork smooth finish Formwork rough finish 100mm crushed stone back fill material 37.5mm maximum size crushed stone - filter material Weep hole, 75mm dia. PVC pipe (Type 600) Rainwater outlet/Duts 160mm dia PVC pipe (Type 600) Hand Rails and uprights End pilasters CULVERTS Laying and jointing of pipes, 600mm dia. (Single row) Laying and jointing of pipes, 600mm dia. (Double row)	m³ m³ kg m³ m² m² m² m³ m³ m nr	QUANTITY		
100 100 100 100 100 100 70 70 70 70 70 70 70 70 70 70 70 70 7	01(1) 01(3) 01(4) 02(1) T 06(1) F 08(1) F 08(2) F 005(2) G 06(1) T 06(2) G 114(1) G 114(2) 12	Grade C 15 Grade C 25 Grade C 30 or Steel reinforcement Random rubble masonry Formwork Formwork smooth finish 100mm crushed stone back fill material 37.5mm maximum size crushed stone - filter material Weep hole, 75mm dia. PVC pipe (Type 600) Rainwater outlet/Duts 160mm dia PVC pipe (Type 600) Hand Rails and uprights End pilasters CULVERTS Laying and jointing of pipes, 600mm dia. (Single row) Laying and jointing of pipes, 600mm dia. (Double row)	m³ kg m³ m² m² m² m² m² m³ m³ m			•
1000 1000 1000 1000 1000 700 700 700 700	01(1) 01(3) 01(4) 02(1) T 006(1) F 608(2) F 008(2) F 005(1) 1 005(2) 3 006(2) 1 14(1) 1 14(2) 2	Grade C 15 Grade C 25 Grade C 30 or Steel reinforcement Random rubble masonry formwork formwork smooth finish formwork rough finish 100mm crushed stone back fill material 37.5mm maximum size crushed stone - filter material Weep hole, 75mm dia. PVC pipe (Type 600) Rainwater outlet/Duts 160mm dia PVC pipe (Type 600) Hand Rails and uprights End pilasters CULVERTS Laying and jointing of pipes, 600mm dia. (Single row) Laying and jointing of pipes, 600mm dia. (Double row)	m³ kg m³ m² m² m² m² m² m³ m³ m			
1000 1000 1000 1000 1000 700 700 700 700	01(3) 01(4) 02(1) T 06(1) F 08(1) F 08(2) F 08(2) F 08(2) T 06(1) 1 06(2) 1 14(1) 1 14(2) 2	Grade C 25 Grade C 30 or Steel reinforcement Random rubble masonry Formwork Formwork smooth finish Formwork rough finish 100mm crushed stone back fill material 87.5mm maximum size crushed stone - filter material Weep hole, 75mm dia. PVC pipe (Type 600) Rainwater outlet/Duts 160mm dia PVC pipe (Type 600) Hand Rails and uprights End pilasters CULVERTS Laying and jointing of pipes, 600mm dia. (Single row) Laying and jointing of pipes, 600mm dia. (Double row)	m³ kg m³ m² m² m² m² m² m³ m³ m			
1000 1000 1000 1000 1000 700 700 700 700	01(3) 01(4) 02(1) T 06(1) F 08(1) F 08(1) F 08(2) F 005(1) 1 06(2) 1 14(1) 14(2) 2	Grade C 30 or Steel reinforcement Random rubble masonry Formwork Formwork smooth finish Formwork rough finish 100mm crushed stone back fill material 87.5mm maximum size crushed stone - filter material Weep hole, 75mm dia. PVC pipe (Type 600) Rainwater outlet/Duts 160mm dia PVC pipe (Type 600) Hand Rails and uprights End pilasters CULVERTS Laying and jointing of pipes, 600mm dia. (Single row) Laying and jointing of pipes, 600mm dia. (Double row)	m³ kg m³ m² m² m³ m³ m m			
100 100 100 100 70 70 70 70 70 70 70 70 70 70 70 70 7	01(4) T 02(1) T 06(1) F 08(1) F 08(2) F 005(1) 1 05(2) 1 06(2) 1 06(2) 1 014(1) 1 022 707(1)	for Steel reinforcement Random rubble masonry Formwork Formwork smooth finish Formwork rough finish 100mm crushed stone back fill material 37.5mm maximum size crushed stone - filter material Weep hole, 75mm dia. PVC pipe (Type 600) Rainwater outlet/Duts 160mm dia PVC pipe (Type 600) Hand Rails and uprights End pilasters CULVERTS Laying and jointing of pipes, 600mm dia. (Single row) Laying and jointing of pipes, 600mm dia. (Double row)	kg m³ m² m² m² m³ m³ m nn			
100 100 70 70 70 70 70 70 70 1 70 2 8-3 3 8 6.3 4 7 7 17 7 18 11 19 11 20 1	06(1) F 608(1) F 108(2) F 105(1) 1 105(2) 2 106(1) 1 106(2) 1 114(1) 1 114(2) 2 707(1)	Random rubble masonry Formwork Formwork smooth finish Formwork rough finish 100mm crushed stone back fill material 87.5mm maximum size crushed stone - filter material Weep hole, 75mm dia. PVC pipe (Type 600) Rainwater outlet/Duts 160mm dia PVC pipe (Type 600) Hand Rails and uprights End pilasters CULVERTS Laying and jointing of pipes, 600mm dia. (Single row) Laying and jointing of pipes, 600mm dia. (Double row)	m ³ m ² m ³ m ³ m m nr			
100 100 70 70 70 70 70 70 1 70 2 8 3 8 6.3 5 7 16 7 71 71 71 71 71 71 71 71 71 7	P P P P P P P P P P	Formwork Formwork smooth finish Formwork rough finish 100mm crushed stone back fill material 37.5mm maximum size crushed stone - filter material Weep hole, 75mm dia. PVC pipe (Type 600) Rainwater outlet/Duts 160mm dia PVC pipe (Type 600) Hand Rails and uprights End pilasters CULVERTS Laying and jointing of pipes, 600mm dia. (Single row) Laying and jointing of pipes, 600mm dia. (Double row)	m ² m ² m ³ m ³ m n n			
100 70 70 70 70 70 70 11 70 12 8 8 6.3 4 7 7 16 7 7 17 7 7 18 11 19 11 19 19 19 19 19 19 19	008(1) F 008(2) F 005(1) 1 005(2) 3 006(1) 1 006(2) 1 114(1) 1 114(2) 2	Formwork smooth finish Formwork rough finish 100mm crushed stone back fill material 37.5mm maximum size crushed stone - filter material Weep hole, 75mm dia. PVC pipe (Type 600) Rainwater outlet/Duts 160mm dia PVC pipe (Type 600) Hand Rails and uprights End pilasters CULVERTS Laying and jointing of pipes, 600mm dia. (Single row) Laying and jointing of pipes, 600mm dia. (Double row)	m² m³ m³ m m m m			
100 70 70 70 70 70 70 11 70 12 8 8 6.3 4 7 7 16 7 7 17 7 7 18 11 19 11 19 19 19 19 19 19 19	008(2) F 005(1) 1 005(2) 3 006(1) 1 006(2) 1 114(1) 1 114(2) 2 707(1)	Formwork rough finish 100mm crushed stone back fill material 37.5mm maximum size crushed stone - filter material Weep hole, 75mm dia. PVC pipe (Type 600) Rainwater outlet/Duts 160mm dia PVC pipe (Type 600) Hand Rails and uprights End pilasters CULVERTS Laying and jointing of pipes, 600mm dia. (Single row) Laying and jointing of pipes, 600mm dia. (Double row)	m² m³ m³ m m m m			
70 70 70 70 70 70 1 70 1 70 8 8 6.3 8 6.3 7 1 7 1 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1	05(1) 1 05(2) 3 06(1) 1 06(2) 3 14(1) 3 14(2) 2	100mm crushed stone back fill material 37.5mm maximum size crushed stone - filter material Weep hole, 75mm dia. PVC pipe (Type 600) Rainwater outlet/Duts 160mm dia PVC pipe (Type 600) Hand Rails and uprights End pilasters CULVERTS Laying and jointing of pipes, 600mm dia. (Single row) Laying and jointing of pipes, 600mm dia. (Double row)	m³ m³ m m nr			
70 70 70 70 70 70 70 70 8 8 6.3 8 6.3 7 7 16 7 7 17 7 7 18 11 19 11 11 12 12 13 14 17 17 18 18 18 18 18 18 18 18 18 18	05(2) 3 06(1) 1 06(2) 3 14(1) 3 14(2) 2 707(1)	87.5mm maximum size crushed stone - filter material Weep hole, 75mm dia. PVC pipe (Type 600) Rainwater outlet/Duts 160mm dia PVC pipe (Type 600) Hand Rails and uprights End pilasters CULVERTS Laying and jointing of pipes, 600mm dia. (Single row) Laying and jointing of pipes, 600mm dia. (Double row)	m m m m nr			
700 700 700 700 700 700 700 700 700 700	05(2) 3 06(1) 9 06(2) 14(1) 1514(2) 2 707(1)	Weep hole, 75mm dia. PVC pipe (Type 600) Rainwater outlet/Duts 160mm dia PVC pipe (Type 600) Hand Rails and uprights End pilasters CULVERTS Laying and jointing of pipes, 600mm dia. (Single row) Laying and jointing of pipes, 600mm dia. (Double row)	m . m m nr			
70 70 70 70 70 70 70 70 70 70 70 70 70 7	06(1) 06(2) 14(1) 14(2) 2 707(1)	Rainwater outlet/Duts 160mm dia PVC pipe (Type 600) Hand Rails and uprights End pilasters CULVERTS Laying and jointing of pipes, 600mm dia. (Single row) Laying and jointing of pipes, 600mm dia. (Double row)	. m m nr			
1 70 2 8 3 3 8 6.3 4 7 5 7 6 7 7 7 7 7 18 11 19 1 20 1	06(2) 114(1) 114(2) 2 707(1)	Hand Rails and uprights End pilasters CULVERTS Laying and jointing of pipes, 600mm dia. (Single row) Laying and jointing of pipes, 600mm dia. (Double row)	m nr			
2 8 6.3 8 6.3 5 7 7 7 7 7 7 18 11 19 1 120 1 1	314(1) 314(2) 2 707(1)	End pilasters CULVERTS Laying and jointing of pipes, 600mm dia. (Single row) Laying and jointing of pipes, 600mm dia. (Double row)	nr			
3 8 6.3 6.3 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	314(2) 2 707(1)	CULVERTS Laying and jointing of pipes, 600mm dia. (Single row) Laying and jointing of pipes, 600mm dia. (Double row)				
4 7 5 7 16 7 17 7 18 1 19 1 120 1 121 1	707(1)	Laying and jointing of pipes, 600mm dia. (Single row) Laying and jointing of pipes, 600mm dia. (Double row)	m			
5 7 16 7 17 7 18 1 19 1 20 1 21 1		Laying and jointing of pipes, 600mm dia. (Double row)	m	15.40		1
5 7 16 7 17 7 18 1 19 1 20 1 21 1		Laying and jointing of pipes, 600mm dia. (Double row)				
16 7 17 7 18 11 19 1 20 1 21 1			m			
17 7 18 1 19 1 20 1 21 1	707(3)	Laying and jointing of pipes, 900mm dia. (Single row)	m		N S FT	
18 11 19 1 20 1 21 1	707(8)	Sand fill	m ³	220	5,000.00	_
19 1 20 1 21 1	1001(1)	Grade C 15 Concrete	m ³	20	19,166.00	383,320.0
20 1	1001(2)	Grade C 20 Concrete	m³			-
21 1	1001(3)	Grade C 25 Concrete	m ³		7.8 1 5	
	1001(4)	Grade C 30 Concrete	m ³	225	30,000.00	
22 1	1002(1)	Tor Steel reinforcement	kg	15,000	250.00	3,750,000.0
_	1002(2)	20 mm Mild Steel dowels at 500 mm c/c	kg			
	1006(1)	Random rubble masonry	m ³	25	13,300.00	
	1006(2)	Plastering, 1:3 cement sand mix, 16mm thick	m ²	50	1,080.00	
	1008(1)	Formwork smooth finish	m ²	1,000	2,000.00	
	1008(2)	Formwork rough finish	m²	125	1,600.0	0 200,000.
_	705(1)	100mm crushed stone back fill material	m ³			
		37.5mm maximum size crushed stone - filter material	m³	++	Prime Face	ONE OF BUILDING
29	705(2)	Weep hole, 75mm dia. PVC pipe (Type 600)	m			
30	706(1)	Supply Lay and joint 900X900X1650mm Precast box units	nr			
31	707(10)	Supply, Lay and Joint 900/300/1030mm ***				
						14,569,820.



1	TEM	DESCRIPTION	UNIT -	QUANTITY	RATE	AMOUNT (Rs)
iii	Pay					
	5.1	ROADSIDE AND LEAD AWAY SURFACE DRAINS				
T		Concrete:		- 00	*	384,000.00
1	1001(1)	Grade C 15	m ³	20	19,200.00	3,165,400.00
-	1001(2)	Grade C 20	m³	119	26,600.00	
-	1006(1)	Random rubble masonry	m ³			
-	1006(2)	Plastering, 1:3 cement sand mix, 16mm thick	m ²			
-		Precast concrete cover slab :				
5	701(3)	600 X 500 X 100mm thick	m ²		2 440.00	122,976.00
6	701(4)	800 X 600 X 125mm thick	m ²	36	3,416.00	1,958,125.00
7	1002(1)	Tor Steel reinforcement	kg	8,125	241.00	1,956,125.00
4	1002(1)	Form work				1,995,000.00
8	1008(1)	Formwork smooth finish	m ²	750	2,660.00	
9	1008(2)	Formwork rough finish	m ²	50	1,660.00	83,000.00
9	5.2	SUB-SURFACE DRAINS (UNDERDRAINS)				
40	702(1)	160mm dia. PVC Pipe (Type 600)	m			
11	-	Graded aggregate maximum size 37.5mm	m³			
	1710(1)	Provide and place Geyotextile fillter	m²			
14	5.3	UNDER GROUND PIPE DRAIN				
-		Inlet to line drain PVC pipe (Type 600) 100mm dia.	m			
-	3 704(1) 5.4	CLEANING AND RESHAPING OF EARTH DRAINS	+ +0.0	4 (304 -	p	
_		Class and reshane earth drains	m			
1	5.5	CLEANING AND REPAIRING OF BUILT-UP DRAINAG	E SYSTEM			
-		· · · · · · · · · · · · · · · · · · ·				
1	5 1302(1)	CLEANING, DESILTING & REPAIRING OF CULVERT	S			150,000,0
-			nr	6	25,00	
1-	6 1303(1)		n	6	25,00	0 150,000.0
1	7 1303(2)	Other Curvert type				
-	_					
1						1
-	_					
-	_					-
-					* * * * * * * * * * * * * * * * * * * *	
-		arried to Summary			** * * *****	8,008,



И		DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
T	Pay	DESCRIPTION	0			
7	.1	TOP SOILING				
80	1(1)	Furnish, Spread and compact top soil	m²			
_		GRASSING				1710 000 00
80	2(1)	Grass sodding .	m ²	3,000	583.00	1,749,000.00
_	7.3	RIP RAP PROTECTION FOR EMBANKMENT SLOPES				
_		Dumped Rip Rap	m ³			
_		PAVED SIDE WALKS				
-	06(1)	Precast concrete slab (450x450x50mm) paving	m ²			
-	06(2)	Asphalt concrete surfacing to 50mm compacted thickness	m ²			
_	7.5	PRE CAST CONCRETE KERBS AND CHANNELS		1		
-		Standard kerb	m			
-	807(1)	Flat /Edge Kerb	m			
-	807(2)	Drop kerb	m			
-	807(3)		m			
1	807(4)	Bridge kerb Guard stones (Road way, Culverts, Causeway and Bridges)	nr			
0	808(1)	ROAD MARKING				
	7.6					
-		Center line:	m ²	150	3,000.00	450,000.00
-	810(1)	Continuous	m ²	300	3,000.00	900,000.00
12	810(2)	Intermittent				
¥	* * * *	Edge line:	m ²	1,100	3,000.00	3,300,000.00
13	810(3)	Continuous	m ²	180	3,000.00	540,000.00
14	810(4)	Pedestrian crossing	nr	-		
15	810(5)	Road Studs	1		1	
•	7.7	ROAD SIGNS		1		
	7	Reflective road sign:	nr	50	15,80	790,00
16	811(1)	Single pole, sign area up to 0.5m ²	nr	- 40	58,30	
17	811(2)	Double pole, sign area up to 2.0m ²	nr			
18	811(3)	Chevron warning sign	nr			
19	811(4)	Flag Type Sign	_1'''			- · · · · · · · · · · · · · · · · · · ·
•	7.8	CONCRETE KERB INLETS			T	-
20	813(1)	Kerb inlet	n			
21	701(2)	Precast concrete Kerb Inlet slab (800x500x50mm thick)	m		17	
	7.9	KILOMETRE POSTS	1 .	r 5	13,000.0	65,000.0
23	815(1)	Provide ,Install and paint new kilometre post	-	-	15,000.	70 00.000
2:	3 815(2)	Reposition existing kilometer post	_	ir		
2	4 815(3)	Paint existing kilometer post		ir		
-	7.10	MAINTENANCE OF CARRIAGEWAY				
2	5 1101(1	Filling pot-holes and patch repairs with Asphalt concrete		,	000	83,000.
F		Cold mix (MC30), 20mm & less in depth	r	n ² 100	830	.00 63,000.
1	6 1101(- Line with Asphall concrete				450,000
1		Cold mix (MC30), 75mm & less in depth		m ² 100	1,500	150,000
-	27 1101(
-	21 1101(Cold mix (MC30), deeper than 75mm		m ² 100	2,000	200,000
1) Filling pot holes and patch repairs with gravel		m³ ·	1	



TEM		DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
Bill	Pay	DESCRIPTION	0			
1	103(2)	Temporary by-passes for culverts, bridges and		18652		
1	4.0	other strectures.	PS	4.		1,000,000
2	111(1)	Allow for provision of standards/technical literature as				*
		required by the Engineer	PS			500,000
3.	113.1(1)	Repairs to damages of existing services	PS			
4	113.1(2)	Demolition / Rebuilding of property	PS			
5	117.1(1)	Diversion, protection or removal of electrical services	PS			1,000,000
6	117.1(2)	Diversion, protection or removal of water services	PS			
7	117.1(3)	Diversion, protection or removal of telecommunication services	PS.			
8	703(1)	Grade adjustment of existing manholes	PS			
9	1103(1)	Investigations and clearance of Landmines and unexploded ordnance on roads and bridges where necessary				
10	118.12(1)	provide stationary for Engineer .	-			1,500,000
11	118.12(2)	Provide stationary for Employer	PS			1,000,000
10		Allow for Contractor's overheads and profit for above Provisional Sum items.	%	5,000,000	30%	1,500,000.00
_		T T				
		** * * * * * * * * * * * * * * * * * * *		3.5	E 211 221	
	(24) 44	and extremely the second of the second of the second	-			
		ied to Summary		1	1	6,500,00

Improvement and Rehabilitation of Priority Road Project Contract Package No - RDA/RNIP/PRP1/C8

Kalkuda-Valaichenai Road - B185 (0 - 4+ 500 km)

BILL OF QUANTITIES

	SUMMARY	AMOUNT (Sri Lanka Rupees)
No.	Description	AMOUNT (SH Lanka Rupees)
2	Site Clearing	1,300,550.00
3	Earthworks	10,994,250.00
4	Road Pavement	171,729,750.00
5	Drainage	40,803,840.00
6	Bridges and Culverts	10,616,201.20
7	Incidentals	18,529,600.00
8	Provisional Sums	4,563,000.00
0	Day works - Labour	69,300.00
9	Day works - Equipment	303,600.00
9		* * * * * * * * * * * * * * * * * * *
-	Day works - Materials	258,910,091.20

Provisional s	um for Price Escalation 8%	20,712,807.30
	s at 10% of Sub - Total 1	25,891,009.21
Contingende	0.00	
Design Char	ges	
Less discour		
	105	305,513,907.71
TENDER PR		1
In words	Rupees:	4
Value added	tax at 12% of the Tender Price	36,661,668.92
Value added	tax at 12% of the Tender Price	36,661,668.92
Value added	tax at 12% of the Tender Price Signature	36,661,668.92
		36,661,668.92
	Signature	36,661,668.92
Bidder:	SignatureNameAddress	36,661,668.92
	Signature Name Address Signature (36,661,668.92 A Ab Qu
Bidder:	Signature Name Address Signature Name (Name	36,661,668.92
Bidder:	Signature Name Address Signature (36,661,668.92
Bidder:	Signature Name Address Signature Name (Name	36,661,668.92 21/2-2-2-10
Bidder: Witness 1	Signature Name Address Signature Name Address	36,661,668.92 24 12-2210

EM		DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
- F	Pay	DESCRIPTION				
		CLEARING AND GRUBBING			25.00	170 000 00
1 2	201(1)	Clearing and grubbing	m²	2,000	85.00	170,000.00
-		Remove trees :				42,000.00
2 2	201(2)	- Girth 600 to 1,200 mm	nr	5	8,400.00	
_	201(3)	- Girth 1,200 to 2,000 mm	nr	5	17,000.00	85,000.00
-	201(4)	- Girth over 2000 mm	nr			
		Remove Branches:				
5	201(5)	- Girth 300 to 600 mm	nr	2	8,400.00	16,800.00
_	201(6)	- Girth 600 to 1,200 mm	nr	1	17,000.00	17,000.00
-	201(7)	- Girth over 1,200 mm	nr	2	42,000.00	84,000.00
-	201(1)	Remove Stumps:				
8	201(8)	- Girth 600 to 1,200 mm	nr	5	17,000.00	85,000.00
00	201(8)	- Girth 1,200 to 2,000 mm	DL	5	35,000.00	175,000.00
_	201(9)	- Girth over 2000 mm	nr			
10	2.2	REMOVAL OF STRUCTURES & OBSTRUCTIONS				
	202(1)	Dismantle & remove brick masonry structures				
11	202(1)	(Provisional Quantity)	· m³			***
	202(2)	Dismantle & remove Random Rubble masonry structures				*
12	202(2)	(Provisional Quantity)	m ³	80	1,700.00	- 136,000.00
-	000(0)	Dismantle & remove concrete structures	60 JE 81 p			* K14 5
13	202(3)	(Provisional Quantity)	m ³	75	3,330.00	249,750.00
_	1000/10	Dismantle & remove Dress stone mosonary structures	,			
14	202(4)		. m³			
-	- (000/5)	Remove fencing (Provisional Quantity)	m	200	1,200.00	240,000.00
1:	5 202(5)	Remove lending (i Tovisional Quantity)				
_	_					
-						
-						
		arried to Summary	-			1,300,550.0



ľ	TEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
A	Pay	02001		3.5		
	3.1	ROADWAY EXCAVATION		T 1		age and a second
13	301(1)	Roadway excavation , soil suitable for fill	m³			
1	301(2)	Roadway excavation, boulders (Provisional Quantity)	m³			
-	301(3)	Roadway excavation, hard rock (Provisional Quantity)	m³			184,000.00
-	301(4)	Roadway excavation, unsuitable soil	m³	200	920.00	92,000.00
-	301(5)	Roadway excavation, sub grade replacement	m ³	100	920.00	125,000.00
1	301(6)	Road pavement excavation	m ³	100	1,250.00	
-	301(7)	Prepare sub grade in cut areas	m ²	24,500	125.00	3,062,500.00
	3.2	STRUCTURE EXCAVATION AND BACKFILL				
_		Excavation & backfill for structures with suitable soil	m ³	180	2,000.00	360,000.00
8	302(1)	Excavation & Backfil for structures in unsuitable soil	m³			
9	302(2)	Excavation in Boulders for structures (Provisional Quantity)	m ³			
10000	302(3)	Excavation in Hard rock for structures (Provisional Quantity)	m ³			
11	302(4)	EMBANKMENT CONSTRUCTION				
200	3.3	Trim, level and compact roadbed	m ²	6,750	125.00	843,750.00
12		Embankment construction, Type 1	m ³	3,000	1,850.00	5,550,000.00
13		Embankment construction, Type 2	m ³			
14		Boulder packing for soft ground treatment	m ³			
15	5 - 304(4)			f 9 19 19 19		
	3.4	CHANNEL EXCAVATION	m ³	. 300 -	- 750.00	225,000.0
1	6 307(1)	Channel excavation soil suitable for fill	m ²			IX.
1	7 307(2)	Channel excavation, boulders (Provisional Quantity)	m			
1	8 307(3)	Channel excavation, hard rock (Provisional Quantity)	m		920.00	552,000.0
1	9 307(4)	Channel excavation, unsuitable soil				
			-			
						10,994,250.0



_	TEM	TOAD	PAVEMENT DESCRIPTION	UNIT	QUA	YTITAL	RATE	NOMA	IT (Rs)
F	Pa	V	CLOOK W. Comp.						
1	4.1		RANULAR PAVEMENT	m ³	2	700.00	2.830.00	7,64	11,000.00
1	401(1)		th base as compacted in position	m ³	-	100.00	2,000.04	-	
-	402(1	P	provide and place stabilized gravel base of 200mm thick		-				
	402(3		Cement	tonne	-	,650.00	8.100.00	61,9	65,000.00
	405(1	0	Dense graded aggregate base	m	1	,000.00	0,100.00		
1	4.2	17	RECONSTRUCTION OF EXISTING PAVEMENT	1 2	T.	8.000.00	110.00	1,9	00.000,08
_	_		Scarify and remove existing bitumen layer	m ²	1 1	5,000.00	110.00		
5	408(-	SHOULDERS	7 3	-	20,50	2300.00	6.	825,000.00
_	4.3	-	Earthen shoulder as compacted in position	m ³	-	3250	2,100.00	-	•
6	409(-	Stabilized gravel shoulder as compacted in position	m ³	4			-	
7	4020			tonne	_		-	-	
8		-	Dense graded aggregate shoulders as compacted in position	m ³	_		-	-	
9	-		Trench excavtion for cross shoulder drain	m ³				-	
_	0 409	One Co	Porous material for cross shoulder drain	m ³				-	
_	1 409	-	Geotextile for cross shoulder drain	m²				-	
1	2 17		PRIME COAT AND TACK COAT					-	9,450,000.00
		.4	Bituminous Prime Coat using MC 30 at 1 litre per m ²	m	2	31,500	300.0	0	5,450,000.0
1	13 50	1(1)	Bituminous Prime Coat using the coat	I	1			-	
Ŀ	14. 50	1(2)	Extra over for MC 30 Bituminous Tack Coat (Cationic Emulsion grade	1	-		- 1		1.181,250.0
L	15 50	02(1)		n	n ²	15,750	75.0	00	1,101,200.0
1			CRS1 at 0.3 litre/m²)	1	tr			-	
	16 5	02(2)	2) Extra over for CRS 1						
	32	4.5	BITUMINOUS SURFACING		ltr			-	
	17 5	05.1	. Bitumen Grade (80-100)		Itr				
1	18 5	505.2	Kerosene/ diesel or other approved cutter		m ³			_	
	19	505.3	20mm chips		m ³			_	20.007.500
1	20	505.4	10mm chips Asphalt concrete in wearing course 50mm compacted thickney	ss	m²	33,07	5 2,500	.00	82,687,500
Section 1	21	506.1	Asphalt concrete in wearing course some some		MT				
	22	506.2	Asphalt concrete in binder/ Correction course		-000		-	-	
				-	_	1			
							2525		171,729,750

1	TEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
- F	Pay					
-	5.1	ROADSIDE AND LEAD AWAY SURFACE DRAINS				
T		Concrete:				
1	1001(1)	Grade C 15	m³	80.	20,200.00	1,616,000.00
2	1001(2)	Grade C 20	m ³	473	26,600.00	12,581,800.00
3	1006(1)	Random rubble masonry	m ³			
-		Plastering, 1:3 cement sand mix, 16mm thick	m ²			
1		Precast concrete cover slab :				
5	701(3)	600 X 500 X 100mm thick	m ²			
_	701(4)	800 X 600 X 125mm thick	m ²	144.00	3,410.00	491,040.00
7	1002(1)	Tor Steel reinforcement	kg	32,500.00	290.00	9,425,000.00
_	1002(1)	Form work				
8	1008(1)	Formwork smooth finish	m ²	6,000.00	2,700.00	16,200,000.00
9	1008(2)	Formwork rough finish	m ²	200.00	1,700.00	340,000.00
	5.2	SUB-SURFACE DRAINS (UNDERDRAINS)				
10	702(1)	160mm dia. PVC Pipe (Type 600)	m			
11	702(1)	Graded aggregate maximum size 37.5mm	m ³			
12	-	Provide and place Geyotextile fillter	m ²			
12	5.3-	UNDER GROUND PIPE DRAIN				
4.	3 704(1)	Inlet to line drain PVC pipe (Type 600) 100mm dia.	m	75.48		
,	5.4	CLEANING AND RESHAPING OF EARTH DRAINS		- "- F	8 4 500	5-1-1
14	A 250 Sec 200 Sec		m			
14	5.5	CLEANING AND REPAIRING OF BUILT-UP DRAINAGE SY	STEM	1	10.0	20 -
10	1302(1)	Clean, desilt & repair built-up (lined) drains.	m	143()	0 4 4 10 to	E.S. State, Alice
15	. 5.6	CLEANING, DESILTING & REPAIRING OF CULVERTS			4. 1.17	*-3:
1	3.0	Pipe Culverts	nr	4 .	25,000	100,000.00
-	7 1303(2)	Other Culvert type	nr	2	25,000	50,000.0
-	1 1303(2)	Outer darks typ-				
-	-					
H	_					
-	-					
-	-					
-						
L		arried to Summary				40,803,840.0



	ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
- F	Pay	DESCRIPTION	01111			
	6.1	STRUCTURES				• • •
T		Concrete:				•
1	1001(1)	Grade C 15	m³	3.15	19,160.00	60,354.00
2	1001(3)	Grade C 25	m³			
3	1001(4)	Grade C 30	m³	55.00	30,000.00	1,650,000.00
4	1002(1)	Tor Steel reinforcement	kg	4,500.00	242.00	1,089,000.00
5	1006(1)	Random rubble masonry	m³			
		Formwork				
6	1008(1)	Formwork smooth finish	m²	180.00	1,500.00	270,000.00
7	1008(2)	Formwork rough finish	m²	35.00	1,330.00	46,550.00
8	705(1)	100mm crushed stone back fill material	m³			
9	705(2)	37.5mm maximum size crushed stone - filter material	m³			
10	706(1)	Weep hole, 75mm dia. PVC pipe (Type 600)	m			
11	706(2)	Rainwater outlet/Duts 160mm dia PVC pipe (Type 600)	m	24.00	5,000.00	120,000.00
12	814(1)	Hand Rails and uprights	m	16.00	10,000.00	160,000.00
13	814(2)	End pilasters	nr	12.00	30,000.00	360,000.00
	6.2	CULVERTS				
14	707(1)	Laying and jointing of pipes, 600mm dia. (Single row)	m			
15	707(2)	Laying and jointing of pipes, 600mm dia. (Double row)	m			
16	707(3)	Laying and jointing of pipes, 900mm dia. (Single row)	m	**	1.4	
17	707(8)	Sand fill	m ₃	106.00	5,000.00	530,000.00
18	1001(1)	Grade C 15 Concrete	m ³	7.92	19,160.00	151,747.20
19	1001(2)	Grade C 20 Concrete	m ₃			
20	1001(3)	Grade C 25 Concrete	m³			1 1
21	1001(4)	Grade C 30 Concrete	m ³	110.00	30,000.00	3,300,000.00
22	1002(1)	Tor Steel reinforcement	kg	6,500.00	250.00	1,625,000.0
23	1002(2)	20 mm Mild Steel dowels at 500 mm c/c	kg			
24	1006(1)	Random rubble masonry	m ³	15.00	13,330.00	199,950.0
25		Plastering, 1:3 cement sand mix, 16mm thick	m ²	50.00	1,080.00	54,000.0
26		Formwork smooth finish	m²	450.00	2,000.00	0.000,000
27	110000000000000000000000000000000000000	Formwork rough finish	m²	60.00	1,660.00	99,600.0
-		100mm crushed stone back fill material	m³			
28		37.5mm maximum size crushed stone - filter material				
29		Weep hole, 75mm dia. PVC pipe (Type 600)	m			
30			nr			
31	707(10)	Supply, Lay and joint 900X900X1650mm Precast box units				
-					1	



M	1	English Service Minimum and		CHANTITY	RATE	AMOUNT (Rs)
H H	Pay	DESCRIPTION	UNIT	QUANTITY	KAIE	AWOUNT (ICS)
_	THE PARTY OF THE P	TOP SOILING				
-		Furnish, Spread and compact top soil	m²		14.	S
1-	7.2	GRASSING				•
_	02(1)	Grass sodding	m²	500	580.00	290,000.00
1	7.3	RIP RAP PROTECTION FOR EMBANKMENT SLOPES				
-	04(1)	Dumped Rip Rap	m³			
_	7.4	PAVED SIDE WALKS				
_		Precast concrete slab (450x450x50mm) paving	m ²	1,000	4,080.00	4,080,000.00
	306(1)	Asphalt concrete surfacing to 50mm compacted thickness	m ²			
3 8	7.5	PRE CAST CONCRETE KERBS AND CHANNELS				
Т			m	1,000	4,500.00	4,500,000.00
3	807(1)	Standard kerb	m			
7	807(2)	Flat /Edge Kerb	m			
8	807(3)	Drop kerb	m			
9	807(4)	Bridge kerb Guard stones (Road way, Culverts, Causeway and Bridges)	nr	-		
10	808(1)					(0.84)
-	7.6	ROAD MARKING	1	-		
		Center line:	m ²	900	3,000.00	2,700,000.00
_	810(1)	Continuous	m ²	300	3,000.00	900,000.0
12	810(2)	Intermittent	-	1, 1, 1		10 10 N = 5
		Edge line :	m ²	1,160	3,000.00	3,480,000.0
13	1000-000-000-000-000-000-000-000-000-00	Continuous	m ²	240	3,000.00	720,000.0
_	810(4)	Pedestrian crossing	nr			
15	810(5)	Road Studs	1			
	7.7	ROAD SIGNS			T	
		Reflective road sign:	nr	50	15,800	790,0
16	811(1)	Single pole, sign area up to 0.5m ²	nr	10	58,300	
17	811(2)	Double pole, sign area up to 2.0m ²	nr			
18	811(3)	Chevron warning sign	nr			
19	811(4)	Flag Type Sign	1			
	7.8	CONCRETE KERB INLETS	Ť		T	1
20	813(1)	Kerb inlet	nr m²	-	-	1
21	701(2)	Precast concrete Kerb Inlet slab (800x500x50mm thick)	m			-
	7.9	KILOMETRE POSTS		4	13,400.00	53,600.
22	815(1)	Provide ,Install and paint new kilometre post	- nr		15,400.00	00,000
23	815(2)	Reposition existing kilometer post	nı		_	
24	4 815(3)	Paint existing kilometer post	ni			
	7.10	MAINTENANCE OF CARRIAGEWAY	1			
2	5 1101(1)			2 100	830.0	0 83,000
		Cold mix (MC30), 20mm & less in depth	m	100	630.0	00,000
2	6 1101(2		-	2	4.500.0	0 150,000
1		Cold mix (MC30), 75mm & less in depth	m	100	1,500.0	150,000
2	7 1101(1			3	0.000	200,000
		Cold mix (MC30), deeper than 75mm		100	2,000.0	200,000
1	28 401(1)	Filling pot holes and patch repairs with gravel	1	n³		

EM		DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
- F	Pay					
1	103(2)	Temporary by-passes for culverts, bridges and				500,000.00
1	100	other strectures.	PS		W. Carrier	500,000.00
2	111(1)	Allow for provision of standards/technical literature as				10,000.00
7		required by the Engineer	PS			10,000.00
3	113.1(1)	Repairs to damages of existing services	PS			
4	113.1(2)	Demolition / Rebuilding of property	PS			3,000,000.00
5	117.1(1)	Diversion, protection or removal of electrical services	PS			3,000,000.00
6	117.1(2)	Diversion, protection or removal of water services	PS			
7	117.1(3)	Diversion, protection or removal of telecommunication services	PS			
8	703(1)	Grade adjustment of existing manholes	PS			
9	1103(1)	lovestigations and clearance of Landmines and unexploded	PS			
10		Allow for Contractor's overheads and profit for above Provisional Sum items.	%	3,510,000	30%	1,053,000.0
	-					
	7		- 0	-	(3 ES# (5	
				- 10	n 1	* * * * *
	-					4,563,000

	Io.9 : SCHEDULE OF DAY WORKS RATES				
-	ABOUR DAY WORKS				
Contra	ct Package No - RDA/RNIP/PRP1/C8				
ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs)
1	Surveyor	Hr	30	600.00	18,000.00
2	Laboratory Technician (skilled)	Hr			
3	Carpenter	Hr	30	300.00	9,000.00
4	Mason .	Hr	30	300.00	9,000.00
5	Steel Fixer	Hr	30	300.00	9,000.00
. 6	Semi-skilled workman	Hr	. 90	- 150.00	13,500.00
7	Unskilled workman (labourer)	Hr	90	120.00	. 10,800.00
		-			
-					
	The state of the s				
14					
		-	-	7,0	
		-	-		

(II)