



*DELHI TRANSIT*

**Delhi Integrated Multi Modal Transit System Ltd.**

( A Joint Venture of Govt. of Delhi & IDFC Ltd.)

**Construction of Link Road from Press Enclave Road to Outer Ring  
Road**

**CONTRACT NO: DIMTS/LR/01**

**BID DOCUMENTS**

**VOLUME 3**

**BILL OF QUANTITIES**

**1<sup>st</sup> Floor, Maharana Pratap Inter State Bus Terminus,  
Kashmere Gate, Delhi-110006**

**SECTION-A**  
**FORM OF BID**

To,  
The Dy. General Manager(Engineering)  
Delhi Integrated Multi Modal Transit System Ltd.  
1<sup>st</sup> Floor, Maharana Pratap I.S.B.T.,  
Kashmere Gate, Delhi-110006.

Sub: Bid for Construction of Link Road from Press Enclave Road to Outer Ring Road, New Delhi (Contract – DIMTS/LR/01)

Sir,

1. Having visited the site and examined the General as well as Special conditions of contract, current CPWD specifications with updated correction slip, MoRTH Specifications, Special/Additional Specifications, Instructions to Bidders, Bid Drawings, Addenda etc. for the execution of above named works, we the undersigned, offer to execute and complete such works and remedy defects therein in conformity with the said Conditions of Contract, Specifications, Bid Drawings and Addenda for the sum \_\_\_\_\_ of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) \_\_\_\_\_ (Amount in figures and words) for Construction of Link Road from Press Enclave Road to Outer Ring Road, New Delhi (Contract – DIMTS/LR/01) .
2. We acknowledge that the Appendix to Bid forms an integral part of the Bid.
3. We undertake, if our Bid is accepted, to commence the works within 7 days from the issue of Notice to Commence the work and to complete the whole of the Works comprised in the Contract within 6(Six) months + 7 days from the date of issue of Notice to Commence the work, as indicated in the Appendix to Bid.
4. If our Bid is accepted, we will furnish a Bank Guarantee for Performance Guarantee for the due performance of the Contract. The amount and form of such guarantee or bond will be in accordance with requirements of tender documents/contract and as indicated in the Appendix to Bid.
5. We have independently considered the amount shown in Clause 3 of the General Conditions of Contract as liquidated damages and agree that they

represent a fair estimate of the damages likely to be suffered by you in the event of the work not being completed in time.

6. We agree to this Bid valid for a minimum period of 90 days from the date fixed for receiving the same and it shall remain binding upon us and may be accepted at any time before the expiry of that period or any extended period mutually agreed to.
7. Unless and until a formal Agreement is prepared and executed, this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.
8. We declare that the submission of this Bid confirms that no agent, middleman or any intermediary has been, or will be engaged to provide any services, or any other item of work related to the award and performance of this Contract and that we have not breached or will be breaching the Clause 37 of Instructions to Bidders. We acknowledge the right of the Employer, if he finds to the contrary, to declare our Bid to be non-compliant and if the Contract has been awarded, to declare the Contract null and void.
9. We understand that you are not bound to accept the lowest or any bid you may receive.
10. If our Bid is accepted we understand that we are to be held solely responsible for the due performance of the Contract.

Dated this.....day of..... 2009

Signature .....

Name..... in the capacity of

duly authorized to sign Bids for and on behalf of.....

Address .....

Company Seal

- Note :
- i. The Appendix forms part of the Bid and (ii)
  - ii. Bidders are required to fill up all the blank spaces in this form of Bid and Appendix.

**SECTION-B**  
**APPENDIX TO BID**

S. No.	Items	Conditions of Contract  Clause/  Sub-clause	Particular Condition for this Contract
1	Determination of market rates	A II(viii)	Contractor's profit and overheads @ 15% shall be applied while determining market rates on the basis of cost of material & labour at site
2	Performance Guarantee	1.1	Performance guarantee to be submitted within 14 days from the date of issue of letter of acceptance
3	Performance Guarantee	1.1	Maximum allowed extension beyond the period specified in S.No. 2 above : 3 days
4	Compensation for Delay	3	Authority for deciding compensation for delay : MD & CEO, DIMTS Ltd
5	Milestones to be achieved during execution	3	No intermediate milestones. Work to be completed within the stipulated period as per contract
6	Incentive for early completion	4	The provisions of clause 4 of GCC shall not be applicable for this contract.
7	Time and Extension for delay	8	Time allowed for execution of works:6 months  Date of commencement of works: 7 days from the date of issue of Notice to Commence the work  Notice to Commence the work can be issued anytime within 60 days from the date of issue of letter of acceptance
8	Milestones to be achieved during execution	8.1	No intermediate milestones. Work to be completed within the stipulated period as per contract
9	Payment on Intermediate Certificate	11	Min. Gross amount of work done together with net payment/adjustment of advances for material collected, if any, since the last such payment for being eligible for interim payment : Rs. 10 lakhs
10	Mobilization advance	18.2	Will be provided on fulfillment of all conditions stipulated in contract in this

			regard
11	Plant, Machinery & Shuttering Material Advance	18.3	Will be provided on fulfillment of all conditions stipulated in contract in this regard
12	Payment due to variation in prices of steel, cement and bitumen after receipt of bid	20	Provisions of this clause shall not be applicable for the Contract
13	Payment due to Increase/Decrease in prices/wages after receipt of tender for works	21	Provisions of this clause shall not be applicable for the contract
14	Deviation, Deviated Quantities, Pricing	24.4 & 24.5	<p>Schedule-A of Bill of Quantities :</p> <p>i. The quantities of items shown in schedule-A of the Bill of Quantities are approximate, and liable to vary during the actual execution of the Work. Some items / group of items may have to be altered, added or omitted . The Contractor shall be bound to carry out and complete the stipulated work as instructed by DIMTS irrespective of the magnitude of variations including additions, alternations or omissions in the Bill of Quantities, individual items specified in the Bill of Quantities.</p> <p>ii. Variations in individual BOQ items shall be paid at BOQ rates except in the situation as provided for below:</p> <p>If the quantum of variation in any BOQ item is such that, in the opinion of DIMTS/Contractor , the rate in the contract for any BOQ item, by reason of such variation, is rendered inappropriate, then, after due Consultation by Engineer with the Employer and Contractor, a suitable revised rate shall be agreed upon between Contractor &amp; DIMTS. In the event of disagreement, DIMTS shall fix such other revised rate as in his opinion, appropriate and shall notify the Contractor accordingly and the same shall be binding</p>

			<p>on Contractor.</p> <p>However, the provisions of this clause shall be subject to following:</p> <p>(a) No change in the rate for any item contained in BOQ shall be considered in case of any decrease in the actual quantity of work executed. Similarly, in case of deletion of a particular BOQ item or a group of BOQ items, no claim for loss of profit or revision of rates of any other BOQ item shall be considered.</p> <p>(b) In case of positive variation in any BOQ item, the change in the rate of BOQ item shall be effected only if the total actual quantity executed is more than 1.25 times the BOQ quantity and also the amount of variation beyond BOQ quantity is more than 2% of contract value (calculated as per BOQ rate)(both the conditions to be satisfied). In case this condition is satisfied, the revised rate shall be applicable only to the quantities exceeding 1.25 times BOQ quantity.</p> <p>Schedule-B of Bill of Quantities : Irrespective of the quantum of work involved, the works shall be executed and paid for as per the percentage above/below/at par rates quoted by Contractor and no rate revision shall be affected in any case.</p>
15	Suspension of work - Compensation for loss suffered by Contractor on account of delay in supply of materials by Employer	27(iii)	No material shall be supplied by DIMTS
16	Action in case work not done as per specifications- Authority to accept work at reduced rates	28	MD & CEO, DIMTS Ltd.
17	Defects Liability Period	29	For 12 months(365 days) after completion of works

18	Contractor's Superintendence, Supervision, Technical Staff & Employees	47(i)	Minimum requirement,of technical representatives, their qualification & experience are as given in Form T-7 of Instructions to Bidders
		47(i)	Penalty/Recovery from Contractor for non- fulfilment of provisions of clause 47 is Rs. 10,000/- Per month

Signature & Company Seal

Date .....

Name .....

Place .....

Address .....

## SECTION-C

### Bill of Quantities

#### PREAMBLE

1. The Bill of Quantities shall be read in conjunction with Instructions to Bidders, General and Special Conditions of Contract, Invitation for Bid, Technical Specifications and Drawings.
  
2. The bill of quantities is sub-divided in two schedules as under :
  - (i) Schedule 'A' of Bill of Quantities: Schedule 'A' comprises of Item rate Bill of Quantities consists of various works related to road works, foundations, structural work, traffic management/ traffic safety, finishing, electrical works, drainage works, landscaping works & other miscellaneous works to be executed on item rate basis. The bidder has to quote the rate (in words and figures) against each item(for which quantity is given) in Schedule "A". The payment shall be made as per the quantum of work executed at the rates quoted by Contractor for individual BOQ item. Contractor will have no right for any claims whatsoever like loss of profit etc.in case the actual quantum of work executed against any BOQ item is less than the quantities given in BOQ. In case of increase in quantities beyond BOQ provisions, rate revision shall be affected as per the provisions in general conditions of contract and appendix to bid.
  
  - (ii)Schedule 'B' of Bill of Quantities: This schedule comprises of DSR 2007 items related to shifting/relocation of existing utilities from the work area, which have to be identified by Contractor and will have to be executed by Contractor. This schedule also comprises of DSR 2007 items related to any other necessary work identified during course of execution, which may have to be executed during the execution of work. The basic amount of work considered under this schedule is Rs. 50, 00,000/-[Rs. Fifty Lakhs only]. The bidder has to quote percentage above/below/at par rates against schedule 'B'.

The basic amount of work indicated above is provisional. The value of work executed under this schedule may be less than this amount. In such an eventuality, Contractor will have no right for any claims whatsoever like loss of profit etc. Similarly, the value of work to be executed under this schedule may be more than the amount mentioned above. However, irrespective of the quantum of work involved, the works shall be executed and paid for as per the percentage above/below/at par rates quoted by Contractor and no rate revision shall be affected in any case.
  
3. The quoted rates and prices in Priced Bill of Quantities will be deemed to include all plant, labour, supervision, materials, transport, all temporary works, erection, maintenance, taxes and duties, contractor's profit and establishment/overheads, together with preparation of design and drawings, all general risks, insurance liabilities, compliance of labour laws and obligations set out or implied in the contract.

4. If the bidder fails to quote rate against any item(for which quantity has been provided) in Schedule "A" of bill of quantities, the same will not be paid for by DIMTS when executed and shall be deemed to have been included by the bidder in the rates and prices for other items in the bill of quantities.  
Similarly, if the bidder fails to quote percentage above/below/at par rates against schedule 'B', it will be deemed to have been quoted " at par" and payment for any work undertaken under this schedule shall be made at DSR, 2007 rates.
5. General directions and descriptions of work and materials are not necessarily repeated, nor summarized in the Unit Priced Bill of Quantities. Reference to the relevant sections of the contract documentation including technical specifications shall be made before entering prices against each item in the Unit Priced Bill of Quantities.
6. Bidders shall fill the Unit Priced Bill of Quantities in Rupees only.
7. Errors will be corrected by the employer for any arithmetic errors in computation or summation as per contract conditions.
8. All the unit rates should be filled both in figures and words and amounts should be filled in figures only.
9. All columns in the Bill of Quantities shall be filled in indelible ink or type written and the total tender amount shown in the bottom. The person authorized to sign on behalf of the Bidder shall sign in full with company seal and date at the bottom of all pages and at the end of summary sheet, schedules 'A' & 'B'.. Any corrections shall be made by clearly striking out the previous data, writing the correct figure/data and putting signature of the authorized signatory at the place of correction. Use of correction fluid is not allowed.
10. The works executed against the BOQ items in Schedule A and DSR items under schedule 'B' would be paid on measurement basis.
11. The payment under the Payment Schedule will cover all work specified in the tender drawing and / or provided in the scope of work. The Schedule of Payment will not get modified due to alterations of any type so far as the modifications/alterations are within the scope of work and/or provided for in the tender drawings.
12. The Contractor may raise their 'On Account' payments on monthly basis as per the status of work on the last day of the respective month.

**Bill of Quantities****ABBREVIATIONS**

<u>Abbreviations</u>		<u>For</u>
Rs or RS	:	Indian Rupees
LS or L.S or SUM	:	Lump Sum
Nr. or No. or Nos.	:	Number(s)
Lm or LM or lm	:	Linear Metre
M	:	Metre
KM or km	:	Kilometre
Hct. Or Hct	:	Hectare
m <sup>2</sup> or sq.m or sqm	:	Square Metre
m <sup>3</sup> or cum or cu.m or Cum	:	Cubic Metre
cc. or c <sup>3</sup> or cu.cm or cucm	:	Cubic Centimetre
cum. Km. Or cum km	:	Cubic Metre Kilimetre
KG or kg or Kg	:	Kilogram
mt or t or T or tone	:	Metric Tonne
HP	:	Horse Power
IRC	:	Indian Roads Congress
IS	:	Indian Standard
P.O.L. or POL	:	Petroleum, Oil & Lubricants

Construction of Link Road From Press Enclave Road to Outer Ring Road, New Delhi[ Contract Package DIMTS/LR/01		
Bill of Quantities		
Summary of Schedules A and B		
S.No	Description	Amount (in Rs.)
		(In figures) (in words)
1	Schedule A	
2	Schedule B	
	Total Tender Sum(In Figures)[1+2]	
	Total Tender Sum(in Words)[1+2]	
	Rebate/Discount Offered , if any =	%
	Total Tender Sum after Rebate	
	(i) In figures	
	(ii) In Words	

**Construction of Link Road from Press Enclave Road to Outer Ring Road, New Delhi[Contract Package No. DIMTS/LR/01  
Schedule-A of Bill Of Quantities**

Item No.	Description of Item	Unit	Quantity	Rate (Rs.)		( Amount In Rs )
				In figures	In Words	
<b>Section - 1: SITE CLEARANCE</b>						
1.01	Clearing and grubbing road land, embankment slope, drain, cross-drainage structures, major/minor bridges including handling, salvaging, piling & disposing off of the cleared material with all lifts & leads, complete as per Technical Specification Clause 201 :Section 200	Hect.	1.26			
1.02	Dismantling structures (superstructure, substructure, foundation and other miscellaneous structures), dismantling of pavements etc. including stacking the usable material with all lifts & lead upto 1000m & disposing off unsuitable material with all lifts & leads, complete as per Technical Specification Clause 202 : section 2800					
	(a) Brick Masonry	Cum	127.00			
	(b) Stone Masonry	Cum	273.00			
	(c) Plain Cement Concrete	Cum	10.00			
	d) Reinforced concrete/ Prestressed concrete structures	Cum	5.00			

**Construction of Link Road from Press Enclave Road to Outer Ring Road, New Delhi[Contract Pacvkage No. DIMTS/LR/01  
Schedule-A of Bill Of Quantities**

Item No.	Description of Item	Unit	Quantity	Rate (Rs.)		( Amount In Rs )
				In figures	In Words	
1.03	Scarifying existing flexible pavements upto the full depth of bituminous layers but without disturbing the base , stacking serviceable and unserviceable materials separately & disposal of unsuitable scarified materials with all lifts & leads as per the directions of Engineer.	sqm	12874.00			
1.04	Cutting(including removal of stumps & roots) of trees including excavation & backfilling to required compaction; handling, salvaging, piling etc. transporting the cut wood to the nearest public crematorial/godowns of concerned department with all lifts & leads as per the instruction of Engineer and disposing off the unserviceable material with all lifts & leads complete.					
	(a) 150mm to 300mm	Nr	100.00			
	(b) 300mm to 600mm	Nr	46.00			
	(c) 600mm to 900mm	Nr	44.00			
	(d) 900mm to 1800mm	Nr	60.00			
	(e) Above 1800mm	Nr	7.00			

**Construction of Link Road from Press Enclave Road to Outer Ring Road, New Delhi[Contract Package No. DIMTS/LR/01  
Schedule-A of Bill Of Quantities**

Item No.	Description of Item	Unit	Quantity	Rate (Rs.)		( Amount In Rs )
				In figures	In Words	
<b>Section - 2: EARTHWORKS</b>						
2.01	Roadway excavation necessary for construction of roadway with all lifts & leads, stacking of usable material(if found suitable) and disposal of unsuitable material with all lifts & leads complete as per drawings & Technical Specification Clause 301 - In all types of soil including marshy soil, conglomerates/soil mixed with boulders	Cum	7610.00			
2.02	Construction of embankment including median with suitable material obtained from roadway cutting and excavation from drain and foundation of other structures with all lifts & leads complete as per Technical Specification Clause 305	Cum	1500.00			
2.03	Construction of embankment including median with approved materials from borrow areas with all lifts & leads, complete as per Technical Specification Clause 305	Cum	5920.00			
2.04	Construction of subgrade/shoulder with approved materials from borrow areas with all lifts & leads, complete as per Technical Specification Clause 305 & 403 (i) Selected Earth (CBR not less than 7 %)	Cum	6320.00			

**Construction of Link Road from Press Enclave Road to Outer Ring Road, New Delhi[Contract Package No. DIMTS/LR/01  
Schedule-A of Bill Of Quantities**

Item No.	Description of Item	Unit	Quantity	Rate (Rs.)		( Amount In Rs )
				In figures	In Words	
<b>Section - 3: SUBBASE AND BASE COURSES</b>						
3.01	Providing and Construction of Granular Sub-base complete as per Technical Specification clause 401, using close graded materials conforming to Grading-I of Table 400-1.	Cum	3785.00			
3.02	a) Providing and Construction of Wet Mix Macadam (WMM) base with approved material complete as per Technical Specification Clause 406.  b) Laying extra Wet Mix Macadam (WMM) for giving proper level or profile correction and strengthening of the existing pavement complete as per Technical Specification Clause 406 .	Cum	6375.00			
		Cum	1380.00			
<b>Section - 4: BITUMINOUS COURSES</b>						
4.01	Providing and applying Prime Coat with bitumen emulsion complete as per Technical Specification Clause 502. at the rate of 0.60 kg/sqm using mechanical means	Sqm	12618.00			

**Construction of Link Road from Press Enclave Road to Outer Ring Road, New Delhi[Contract Package No. DIMTS/LR/01  
Schedule-A of Bill Of Quantities**

Item No.	Description of Item	Unit	Quantity	Rate (Rs.)		( Amount In Rs )
				In figures	In Words	
4.02	Providing and applying Tack Coat with bituminous emulsion complete as per Technical Specification Clause 503.at the rate of 0.20 kg per sqm on the prepared bitumions/ granular surface cleared with mechanical brooms.	Sqm	38110.00			
4.03	Providing and laying Dense Graded Bituminous Macadam (DBM) including Profile Corrective Course complete as per drawings & Technical Specification Clause 507 using bituminousbinder 60/70	Cum	3313.00			
4.04	Providing and laying Bituminous Concrete (BC) wearing course complete as per Drawings & Technical Specification Clause 509 with modified Bitumen CRMB 55	Cum	1019.00			
<b>Section - 5: CROSS DRAINAGE WORKS (Culverts)</b>						
5.01	Earthwork in excavation for foundation for structures, stacking of usable material(if found suitable) and disposal of unsuitable material with all lifts & leads complete as per Technical Specification Clause 301 & 304. a) In all types of soils including marshy soil, conglomerates/soil mixed with boulders	cum	1188.00			

**Construction of Link Road from Press Enclave Road to Outer Ring Road, New Delhi[Contract Package No. DIMTS/LR/01  
Schedule-A of Bill Of Quantities**

Item No.	Description of Item	Unit	Quantity	Rate (Rs.)		( Amount In Rs )
				In figures	In Words	
	b) In Hard rock	cum	164.00			
5.02	Back filling behind abutments, wing walls/ retaining walls and return walls or any other area with selected granular materials as per Drawings & Technical Specification Clause 305.	cum	1118.00			
5.03	Providing and laying filter medium behind abutment, wing wall retaining wall and return wall complete with all lifts & leads complete as per drawings & Technical Specification Clause 305 & 2504.	cum	226.00			
5.04	Providing and laying plain Cement Concrete Grade M15 nominal mix for pipe bedding and leveling course below foundations ,box structures approach slab including centering & shuttering as per drawing, Technical Specification clause 1500, 1700 & 2100.	cum	166.00			
5.05	Providing and laying plain/reinforced Cement Concrete of M20 grade for foundation, abutment, return wall, wing wall, pillar, guard wall, median including centering & shuttering & excluding cost of reinforcement but including treatment of joints between existing & new structures as per drawings & Technical Specification clause 1500, 1700 2100 & 2200	cum	296.00			

**Construction of Link Road from Press Enclave Road to Outer Ring Road, New Delhi|Contract Package No. DIMTS/LR/01  
Schedule-A of Bill Of Quantities**

Item No.	Description of Item	Unit	Quantity	Rate (Rs.)		( Amount In Rs )
				In figures	In Words	
5.06	Providing and laying reinforced cement concrete for box structures, foundation, abutment, return wall, wing wall, head wall, approach slab, including centering & shuttering but excluding cost of reinforcement but including treatment of joints between existing & new structures as per drawings & Technical Specification clause 1500, 1700, 2100, 2200 & 2300 i) M30 grade	cum	259.00			
5.07	Providing, placing and fixing in position TMT Fe 415 grade reinforcement in foundation, substructure, superstructure, retaining wall, return / wing wall approach slab complete as per drawing and Technical Specification Section 1600.	MT	34.00			
5.08	Providing weep holes of 100 mm diameter PVC pipe in retaining wall, abutment, wing/return wall, complete as per Technical Specification Clause 2706.	Nr	96.00			
5.09	Painting of culvert No. and span arrangement on culverts as per Technical Specifications Section 800.	Nr	8.00			

**Construction of Link Road from Press Enclave Road to Outer Ring Road, New Delhi|Contract Package No. DIMTS/LR/01  
Schedule-A of Bill Of Quantities**

Item No.	Description of Item	Unit	Quantity	Rate (Rs.)		( Amount In Rs )
				In figures	In Words	
5.10	Providing and fixing drainage spouts for culverts as per drawing and Technical specifications Clause No.2705	Nr	8.00			
5.11	Providing and laying in position Reinforced Cement Concrete of Grade M -20 crash barrier / high containment crash barrier including shuttering & centering, cost of reinforcement including providing bituminous fiber board and Polysulphide joint filler at expansion joints/gap locations complete as per drawings & Technical specifications Clause No.800,1500, 1600, 1700 and 2700 .	Rmt	14.00			
5.12	Providing and laying stone pitching of 300 mm thick on slopes as per Technical Specifications Clauses 1400 and 2500	cum	44.00			
5.13	Providing and laying filter media complete as per, Technical Specification Clause 2504	cum	22.00			

**Construction of Link Road from Press Enclave Road to Outer Ring Road, New Delhi[Contract Pacvkage No. DIMTS/LR/01  
Schedule-A of Bill Of Quantities**

Item No.	Description of Item	Unit	Quantity	Rate (Rs.)		( Amount In Rs )
				In figures	In Words	
5.14	Providing and laying in position 65 mm thick wearing coat consisting of 50 mm thick bituminous concrete over a 15 mm thick layer of mastic asphalt over deck slab after applying prime coat complete as per drawings and Technical Specifications Sections 500 & 2700	sqm	336.00			
5.15	Painting for new structure(Providing and applying primer coat & 2 coats of water based cement paint to unplastered concrete surface after cleaning the surface of dirt,dust,oil,grease,efflorescence and applying paint @ 1 litre for 2 sqm.)	sqm	96.00			
5.16	Providing and laying boulders apron on river bed for protection against scour with stone boulders weighing not less than 40 kg each complete as per drawing and technical specification clause 2503	cum	150.00			
5.17	Providing & fixing 20 mm thick compressible fibre board in expansion joints complete as per drawing & Technical Specification clause 2600.	Lm	72.00			

**Construction of Link Road from Press Enclave Road to Outer Ring Road, New Delhi[Contract Package No. DIMTS/LR/01  
Schedule-A of Bill Of Quantities**

Item No.	Description of Item	Unit	Quantity	Rate (Rs.)		( Amount In Rs )
				In figures	In Words	
5.18	Sand filling in foundation trenches as per Drawing & Technical Specification	cum	83.00			
<b>Section - 6 : New Bridges</b>						
6.01	Earthwork in excavation for foundation for structures as per Technical Specification Clause 301 & 304 including setting out, ground improvement , other incidental works, stacking of usable material(if found suitable) and disposal of unsuitable material with all lifts & leads a) In all types of soils including marshy soil, conglomerates/soil mixed with boulders	Cum	2766.00			
6.02	Providing and laying in position Plain Cement Concrete of Grade M -15 in levelling course below open foundations, pile caps, approach slabs, retaining wall , wing wall,box structure ,curtain wall and in inspection ladders and annular filling around foundation in rock including centering & shuttering complete as per drawings and Technical Specifications Sections 1500,1700 and 2100	Cum	140.00			
6.03	Providing and laying RCC in open foundations in M 35 grade of concrete including the cost of centering and shuttering but excluding the cost of reinforcement with all leads, lifts and depths all complete as per approved drawings and Technical Specifications Sections 1500,1700 and 2100	Cum	768.00			

**Construction of Link Road from Press Enclave Road to Outer Ring Road, New Delhi[Contract Package No. DIMTS/LR/01  
Schedule-A of Bill Of Quantities**

Item No.	Description of Item	Unit	Quantity	Rate (Rs.)		(Amount In Rs)
				In figures	In Words	
6.04	Providing and laying in position concrete in RCC pier, pier cap, pedestals, cantilever/counterfort abutment, abutment cap, dirt wall, splayed wing wall, retaining wall, box return, cantilever return, screen wall, median wall, inspection ladders, box cell structures for underpasses, open foundation, etc.including the cost of centering and shuttering but excluding cost of reinforcement, complete as per drawings and Technical Specifications Sections 1500, 1700, and 2200 .	Cum	348.00			
	(i) Grade M 30					
		Cum	1014.00			
	(ii) Grade M 35					
6.05	Providing and laying in position concrete in RCC superstructure complete including the cost of centering and shuttering but excluding cost of reinforcement, as per drawings and Technical Specifications Sections					
i	i) Grade M 30	Cum	0			
ii	ii) Grade M 35	Cum	940.00			

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Schedule-A of Bill Of Quantities**

Item No.	Description of Item	Unit	Quantity	Rate (Rs.)		( Amount In Rs )
				In figures	In Words	
6.06	Providing & fixing in position thermomechanically treated (TMT) Fe 500 grade reinforcement bars in foundations, substructures, superstructures ,approach slab,friction slab,retaining wall etc. complete as per drawings and Technical Specifications Section 1600	MT	320.00			
6.07	Providing and laying in position 65 mm thick wearing coat consisting of 50 mm thick bituminous concrete over a 15 mm thick layer of mastic asphalt over deck slab after applying prime coat complete as per drawings and Technical Specifications Sections 500 and 2700	Sqm	1576.00			
6.08	Providing and fixing in position Expansion Joints complete as per drawings and Technical Specifications Section 2600 (including tar paper bearing incidental to work). a) Polystyrene Filler Type Joint : 20 mm movement	Lm	193.00			
6.09	Providing and fixing in position drainage spouts complete as per drawings and Technical Specifications Clause 2705.	Nr	10.00			

**Construction of Link Road from Press Enclave Road to Outer Ring Road, New Delhi[Contract Package No. DIMTS/LR/01  
Schedule-A of Bill Of Quantities**

Item No.	Description of Item	Unit	Quantity	Rate (Rs.)		( Amount In Rs )
				In figures	In Words	
6.10	Providing and laying in position Reinforced Cement Concrete crash barrier / high containment crash barrier including cost of reinforcement, bituminous fiber board and Polysulphide joint filler at expansion joints/gap locations complete as per drawings and Technical Specifications Sections 800, 1500, 1600, 1700 and 2700 . Grade M 20	RM	125.00			
6.11	Providing and fixing hand rail over the crash barrier consisting of MS base plate, embedded fastener and nuts, MS vertical plates and pipes, painting with 2 or more coats of synthetic enamel paint etc. as shown in the drawings, and as per specifications. All the railing components as mentioned above to be hot dip galvanised with a zinc coating of at least 175 gm/sqm. The thickness of plates to be as shown in the drawings and pipe to be 65mm Nominal bore heavy class with a weight not less than 7.92 kg/m and conforming to IS: 1161-1979. Item to include all incidental works required to complete the work as directed by the Engineer	RM	125.00			
6.12	Providing and laying in position Reinforced Cement Concrete grade M 30 in approach slabs excluding reinforcement but including bituminous joint filler with joint sealing compound between approach slab and dirt wall / concrete pavements complete as per drawings and Technical Specifications Sections 1500, 1600, 1700 and 2700	Cum	112.00			
6.13	Providing weep holes of 100mm diameter PVC pipe in abutments, played wing wall, median wall, retaining wall or any other earth retaining structure complete as per drawings and Technical Specifications Clause 2706	Nr	608.00			

**Construction of Link Road from Press Enclave Road to Outer Ring Road, New Delhi[Contract Package No. DIMTS/LR/01  
Schedule-A of Bill Of Quantities**

Item No.	Description of Item	Unit	Quantity	Rate (Rs.)		( Amount In Rs )
				In figures	In Words	
6.14	Painting of structure number, span arrangement and flow directions on structure complete as per drawings and Technical Specifications Section 800	Nr	4.00			
6.15	Providing and laying back filling behind abutments, splayed wing walls, return wall or any other area with selected granular materials of approved quality complete as per drawings and Technical Specifications Clause 305 and Appendix-6, IRC:78-2000 with following properties:(a) c =0, (b) F >= 300, (c) g = 1.8t/m <sup>3</sup>	Cum	1662.00			
6.16	Providing and laying of filter media behind abutment, splayed wing wall, median wall, retaining wall, return wall and underneath stone pitching in slope complete as per Technical Specifications Section 2500	Cum	928.00			
6.17	Providing and laying in position hand packed boulder pitching on slopes of embankment, in front of abutments and in launching apron complete as per Technical Specifications Section 2500	Cum	1220.00			
6.18	Carrying out sub soil investigation/confirmatory boreholes at specified foundation locations as per Technical Specifications section 2400 (i) in soil/marshy soil/comglomerates/soil mixed with boulders	No.	4.00			

**Construction of Link Road from Press Enclave Road to Outer Ring Road, New Delhi[Contract Pacvkage No. DIMTS/LR/01  
Schedule-A of Bill Of Quantities**

Item No.	Description of Item	Unit	Quantity	Rate (Rs.)		( Amount In Rs )
				In figures	In Words	
<b>Section - 7: DRAINAGE AND PROTECTIVE WORKS</b>						
7.01	Providing RCC Drain(including top RCC cover) of designed section as shown in Drawings and as per relevant sections of technical specifications( clear depth ranging from 1.0m to 1.5m)	M	2214.00			
7.02	Construction of RCC Retaining Wall including Crash barrier as per approved drawings & as per relevant sections of technical specifications a) Earthwork in excavation for foundation for structures as per Technical Specification Clause 301 & 304 including setting out, ground improvement , other incidental works, stacking of usable material(if found suitable) and disposal of unsuitable material with all lifts & leads - In all types of soils including marshy soil, conglomerates/soil mixed with boulders	Cum	2048.00			
	b) Providing and laying in position Plain Cement Concrete of Grade M -15 in levelling course including centering & shuttering complete as per drawings and Technical Specifications Sections 1500,1700 and 2100	Cum	105.00			
	c) Providing and laying Reinforced Cement Concrete of M20 grade for foundation, abutment, return wall, wing wall, pillar, guard wall, median including centering & shuttering & excluding cost of reinforcement but including treatment of joints between existing & new structures as per drawings & Technical Specification clause 1500, 1700 2100 & 2200	Cum	1320.00			

**Construction of Link Road from Press Enclave Road to Outer Ring Road, New Delhi [Contract Package No. DIMTS/LR/01  
Schedule-A of Bill Of Quantities**

Item No.	Description of Item	Unit	Quantity	Rate (Rs.)		( Amount In Rs )
				In figures	In Words	
	d) Providing & fixing in position thermomechanically treated (TMT) Fe 500 grade reinforcement bars in foundations, substructures, superstructures, approach slab, friction slab, retaining wall etc. complete as per drawings and Technical Specifications Section 1600	MT	80.00			
	e) Providing weep holes of 100 mm diameter PVC pipe in retaining wall, abutment, wing/return wall, complete as per Technical Specification Clause 2706 @1500 c/c zig zag	No	640.00			
<b>Section - 8: TRAFFIC SIGNS, MARKINGS AND ROAD APPURTENANCES</b>						
8.01	Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign as per IRC :67 made of high intensity grade sheeting vide clause 801, fixed over aluminium sheeting 2 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing and technical specification clause 801	Nr	3.00			
	(a) Octagonal stop sign 900mm size.	Nr	4.00			
	(b) Triangular sign 900 side.	Nr				

**Construction of Link Road from Press Enclave Road to Outer Ring Road, New Delhi[Contract Package No. DIMTS/LR/01  
Schedule-A of Bill Of Quantities**

Item No.	Description of Item	Unit	Quantity	Rate (Rs.)		(Amount In Rs)
				In figures	In Words	
	(c) Circular sign 900 dia.	Nr	1.00			
8.02	Providing and erecting direction and place identification retro- reflectorised sign as per IRC :67 made of high intensity grade sheeting vide clause 801.3, fixed over aluminium sheeting, 2 mm thick with area exceeding 0.9 sqm supported on mild steel angle iron post 75 mm x 75 mm x 6 mm, 2 Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing and technical specification clause 801	sqm	3.00			
8.03	Supply and fixing gantry mounted Overhead/Cantilever signs. All components of signs & supports other than the reflective portion shall be thoroughly descaled, cleaned, primed and painted with two coats of epoxy paints. The sign back side shall be with grey colour and post shall be in black & white alternate bands. The post below ground shall be made as per IRC - 67 -2001 and Technical Specifications Clause 801 & 802					
	(i) Erection of Over Head Gantry / Cantilever structure as per drawing including steel work in trusses, angle iron frame shall be made with angle of size 70mm x 70mm x 8mm with additional bracing at every 600mm c/c, if any dimension is more than 1200mm. steel tubes cutting, fixing in position with welding and bolted, fixing to ground with concrete foundation as per drawings complete in all respects.	Tonne	15.00			

**Construction of Link Road from Press Enclave Road to Outer Ring Road, New Delhi[Contract Package No. DIMTS/LR/01  
Schedule-A of Bill Of Quantities**

Item No.	Description of Item	Unit	Quantity	Rate (Rs.)		( Amount In Rs )
				In figures	In Words	
	(ii) The sign boards made out of 2mm thick aluminium sheet, face to be fully covered by high intensity grade retro reflective sheeting of encapsulated lens type. The background / border / symbols / legend / arrows shall be made by transparent overlay film of desired colour as per sign details except those in black which shall be of non reflective type. The sign plate shall be fixed with 6mm dia aluminium rivets on MS angle iron frame.	Sqm	18.00			
8.04	Providing and laying pavement marking with hot applied thermoplastic paints (TYPE-2) conforming to ASTM D-36 / BS 3262 (Part-1) complete as per drawing and Technical Specification Clause 803. (a) Lane / centreline / edge marking / transverse and any other marking.	Sqm	761.00			
8.05	Providing & fixing in position reinforced cement concrete (grade M20) 200 metre, Km and 5th Km stone complete as per drawing and Technical Specification Clause 804: (a) 200 metre stone	Nr	12.00			

**Construction of Link Road from Press Enclave Road to Outer Ring Road, New Delhi[Contract Pacvkage No. DIMTS/LR/01  
Schedule-A of Bill Of Quantities**

Item No.	Description of Item	Unit	Quantity	Rate (Rs.)		( Amount In Rs )
				In figures	In Words	
8.06	Providing and fixing Road delineators triangular Object Marker 300mm side with four red reflector, made out of 2mm thick aluminium sheet, face to be fully covered by high intensity grade white retro reflective sheeting of encapsulated lens type. The background / border / symbols shall be made with angle of size 40mm x 40mm x 5mm. The sign shall be fixed with nut-bolts & welding on 50mm (NB) dia medium weight 50mm high MS pipe. All components of signs & supports shall be thoroughly descaled, cleaned, primed and pnted with two coats of epoxy paint. The sign back side shall be with grey colour and post shall be white colour. The post below ground shall be painted with three coats of red lead paint.complete as per Technical Specification Section 800.	Nr	100.00			
8.07	a) Supplying and laying M-20 cement concrete kerb channel along the Footpath complete as per drawing and Technical Specification Clause 408.  b) Providing and laying M-20 cement concrete kerb along median on both sides on the prepared granular surface of road with kerb casting machine. Joining Kerbs with 1:3 cement mortar in true line as per Technical specification 408 & approved drawings and as per instructions of Engineer.	RMT	3460.00			
8.08	a) Construction of footpath/separator by providing a 150 mm compacted granular sub base as per clause 401 and 25 mm thick cement concrete grade M15, over laid with precast interlocking paver blocks in cement mortar 1:3 including provision of all drainage arrangements but excluding kerb channel The paver blocks shall be Terra Firma, Unistone or equivalent machine moulded factory made premium glazed antiskid(in required colour/shade) cement concrete(M30) interlocking paver blocks 60mm thick with smooth top/side surface.	Sqm	775.00			

**Construction of Link Road from Press Enclave Road to Outer Ring Road, New Delhi[Contract Package No. DIMTS/LR/01  
Schedule-A of Bill Of Quantities**

Item No.	Description of Item	Unit	Quantity	Rate (Rs.)		( Amount In Rs )
				In figures	In Words	
8.09	b) Providing and laying Footpath over drain with precast interlocking paver blocks with 1:3 cement mortar on 100mm thick fine sand bed, overlaid with 25mm thick M-15 concrete as per specification and approved drawing and as per instruction of Engineer. The paver blocks shall be Terra Firma, Unistone or equivalent machine moulded factory made premium glazed antiskid(in required colour/shade) cement concrete(M30) interlocking paver blocks 60mm thick with smooth top/side surface.	Sqm	3067.00			
8.09	Providing & fixing M.S. railing for traffic islands/ median/ including foundation concrete and painting with 2 coats of synthetic enamel paint of approved shade etc. all complete as per drawings and Technical Specifications Sections 300, 808 &1700 .	LM	2230.00			
<b>Section - 9: Electrical Items</b>						
9.01	Supplying & installing 12mtr long single dip Galvanised steel octagonal poles Double over hang 1.5mtr with welded base plate (320x320x20mm) integrated connector box inside the pole containing two no. 6A MCB , Neutral link and earth terminal i/c transportation, handling, RCC foundation having opening for 2/3 cables, foundation bolts and marking etc. as per specification and drawings.	No	47			
9.02	Supply & drawing 2.5 sqmm two core copper wire inside the GI Octagonal pole from connector box to the HPSV fittings including connections with thimbles as reqd. in 12m pole at 12m height.	No	47			

**Construction of Link Road from Press Enclave Road to Outer Ring Road, New Delhi[Contract Package No. DIMTS/LR/01  
Schedule-A of Bill Of Quantities**

Item No.	Description of Item	Unit	Quantity	Rate (Rs.)		( Amount In Rs )
				In figures	In Words	
9.03	Supply, installing and energising 400 W HPSV Street Light Fittings dust , moisture & insect proof with IP-66 protection, complete with choke, ignitor, capacitor etc with 400 W HPSV Neon-T Lamp on existing 12 Mtr poles including transportation & connection etc.	No	47			
9.04	Supplying and providing G.I. Pipe ground earth electrode as per BS-3043 I/c connection with double earthing of service pillar & single earthing of every 5th pole as per CPWD's spec I/c messonary enclosure & cover etc and required layers of coal and salt etc.	No	10			
9.05	Supply, laying & connection of 8 SWG G.I. Wire for earth connections to poles & feeder pillars	Lm	2500			
9.06	Supply & laying of XLPE insulated, PVC sheathed 1.1 KV grade Aluminium conductor heavy duty armoured cable as per IS 7098 : 2 x 10 sq.mm	Lm	2000			

**Construction of Link Road from Press Enclave Road to Outer Ring Road, New Delhi[Contract Package No. DIMTS/LR/01  
Schedule-A of Bill Of Quantities**

Item No.	Description of Item	Unit	Quantity	Rate (Rs.)		( Amount In Rs )
				In figures	In Words	
9.07	Supply & laying end termination with brass compression gland and aluminium lugs for XLPE insulated, PVC sheathed 1.1 KV grade Aluminium conductor heavy duty armoured cable as per IS 7098 : 2 x 10 sq.mm	Set	10			
<b>Section - 10: Miscellaneous Items</b>						
10.01	Providing 2.0 m high temporary barricade and arrangement for traffic diversion such as traffic signals during construction at site, for day and night as per requirement and drawings. During construction, barricading and arrangement for traffic diversion has to be kept continuously and maintained properly till the completion of all the activities. The construction barricading will have different width in different portion of the alignment as directed by the DIMTS keeping in view the movement of traffic at the ground level and minimum inconvenience to and safety of public. Dismantling and re-erecting the above barricading and other arrangements at the new location as per instruction of DIMTS is included in this item. Nothing extra shall be payable. Note : The payment schedule for item shall be as follows: (i) Providing barricading for a given stage and approval of the same by DIMTS : 85% of the accepted rate (ii) After completion of all activities of stage for which barricading was erected : 15% of the accepted rate	Mt	1000.00			
10.02	Deployment of adequate manpower for 8 hrs. shift for day and night management of traffic in intersection, roadway influenced by construction and traffic diversions at various levels. (i) Supervisor	Shift	480.00			

**Construction of Link Road from Press Enclave Road to Outer Ring Road, New Delhi[Contract Package No. DIMTS/LR/01  
Schedule-A of Bill Of Quantities**

Item No.	Description of Item	Unit	Quantity	Rate (Rs.)		( Amount in Rs )
				In figures	In Words	
	(ii) Traffic Guards/Marshals Note : The deployment to be done with prior approval of DIMTS. The personnel above should be familiar with traffic rules and regulations, should be in uniform and should be equipped with reflective jackets/hand flashers etc. especially during night operations .	Shift	4320.00			
10.05	Providing & laying NP2 RCC pipe 300mm dia for draining of storm water in to the existing drain as per specifications & as per instruction of Engineer-in-charge.	Mt	105.00			
10.06	Construction of Cumnetee along the existing nallah under the bridge 30mt long(1.5mt wide & 1mt deep) with 150mm thick M-10 concrete as base and 100mm thick M-20 concrete along the slope and bed of drain, including expansion and construction joints at suitable intervals and construction of Toe wall upstream & downstream of the cumnetee including 150mm thick M-10 concrete & stone wall 0.5mt deep & 0.5mt wide on 150mm thick granular material.	Mt	60.00			
10.07	Construction of temporary diversion during the construction of Roads/bridges, complete in all aspects, as per specification Clause 112 and as per instruction of Engineer	Sqm	2000.00			

**Construction of Link Road from Press Enclave Road to Outer Ring Road, New Delhi[Contract Package No. DIMTS/LR/01  
Schedule-A of Bill Of Quantities**

Item No.	Description of Item	Unit	Quantity	Rate (Rs.)		( Amount In Rs )
				In figures	In Words	
10.10	Carring out repairing of pot holes and perform any necessary patching to existing bituminous carriageway confirming as per technical specification Clause 3004	Sqm	1500.00			
				Total Amount(Rs.)(in figures)		
				Total Amount(Rupees)(in words)		

Authorised Signatory with Company Seal

**Construction of Pedestrian Foot Over Bridge at Park Street(Near R.M.L.Hospital), New Delhi in NDMC Area , Contract Package FOBUS-2**  
**Bill of Quantities**  
**Schedule B**

The tenderer has to quote a single percentage above/below/at par for following items

S. No.	Description	Unit	Basic Amount(Rs.)	% above/below/at	Amount(in figures)(Rs.)
1	All items of work related to Relocation/Shifting of all Utilities(like Sewer Lines, Storm Water lines, Water supply lines etc.( but excluding electrical cables/OFC) and any other necessary work identified during course of execution, under DSR 2007 - Any item of DSR 2007 of CPWD(Civil work)	LS	45,00,000/-		
2	All items of work related to Relocation/Shifting of electrical Utilities(electrical cables/OFC) identified during course of execution, under CPWD Schedule of Rates 2007(Electrical works) Any items of CPWD Schedule of Rates 2007(Electrical works)	LS	5,00,000/-		

**Total cost of schedule B**

**in figures Rs**

**in words Rupees**

Authorised Signatory with Company Seal