PART-II PRICED BID

SCHEDULE - "A" NOTES

CONSTRUCTION OF CULVERTS, R/WALL, B/WALL BETWEEN KM 11.700 TO KM 27.000, BAILEY BRIDGE ABUTMENTS BET KM 0.000 TO KM 27.000, PROVISIONING AND FIXING OF DELINEATORS & CAT EYES, PROVIDING AND LAYING OF WMM 100 MM & 75 MM COMPACTED THICKNESS, BC 50 MM COMPACTED THICKNESS INCLUDING APPLICATION OF PRIME COAT, TACK COAT, ROLLING AND COMPACTION AS PER MORT&H SPECIFICATIONS AND ROAD MARKING WITH THERMOPLASTIC PAINT 2.50 MM THICK CONFORMING TO MORT&H 803.4 INCLUDING PREPARATION OF SURFACE FOR CARRYING OUT SURFACING WORKS BETWEEN KM 0.000 TO KM 27.000 ON ROAD SAMRANG-JOMOTSANGKHA UNDER 63 RCC/19 BRTF OF PROJECT DANTAK INSIDE BHUTAN

- 1. Quantity shown in Schedule 'A' is approximate and is inserted as guide only. These shall, however not be varied beyond the limits laid down in condition 7 of IAFW-2249 General Condition of contracts. The tender will be considered for acceptance as a whole for which the contractor shall have no claim on this account.
- 2. The rates and amount in Schedule 'A' are to be filled in by the tenderer. The rates shall be filled both in figures as well as in words. In case of variation between the rates quoted in figure and words, the rates in words shall take precedence.
- 3. <u>Period of Completion</u>: The entire works of Schedule 'A' under this contract shall be completed within 365 days in accordance with the phasing, if any, indicated in the tender from the date of placing ofL-1 work order, which will be usually within two week from the date of issue of Acceptance letter.
- 4. Any drawings mentioned in the tender documents/particular specifications but it is inadvertently not included in the list of drawings, shall also be deemed to form part of the contact and Tenderer may see such drawings/details in the office of Accepting Officer/concerned OC Contracts and shall be supplied by Deptt.
- 5. The layout of work as indicated in site plan/layout plan is tentative and may be varied where necessary at the discretion of the OC Contact. The contactor shall not be entitled for any claim on account of any such variation.
- 6. The rates to be quoted by the tenderer in the schedule 'A' shall be deemed to include for the provision of all labour and materials, loading and unloading of materials and transportation if required, tools, plant, equipment and tackle, process, operations and specific requirements details in the schedule in the particular specification and elsewhere in this tender documents and for the full, entire and final completion of the work in accordance with the provisions of these tender documents.
- 7. The rate quoted by the contractor shall be deemed to be inclusive of all Taxes (including Sales Tax/VAT on materials, Sales, Tax/VAT on works contracts, Turnover Tax, Service Tax, etc), duties, Royalties, Octroi, State Entry Tax & other levies payable under the respective statutes. No re-imbursement/refund for variation in rates of taxes, duties royalties, Octroi, State Entry tax & other levies, and or imposition/abolition of any new/existing taxes, duties, royalties, octroi, state entry Tax & other levies shall be made except as provided in Special Condition.

EE(C), SG SW For Accepting Officer

SCHEDULE - 'A' NOTES (CONTD.....)

- 8. The rate to be quoted by the tenderer in respect of these work shall be deemed to include for all minor details of construction which are obviously and fairly intended and which may not have been specifically mentioned in the tender documents but which are essential for satisfactory execution and completion of work. In case of difference of opinion between the OC Contract and the Contractor as to what constitutes a minor details of construction, the decision of Accepting Officer shall be final and binding.
- 9. Rates to be quoted by the contractors shall be deemed to include for all items of work as described, specified in particular specification and on drawing.
- 10. The rates to be quoted by the contractor for various items shall include for "material and labour"/"Supply and fix" connecting Jointing, Testing and Commissioning complete unless otherwise specifically mentioned therein.
- 11. The amount of contract is not firm but shall be treated as the contract sum as referred to in condition 1 (n) of IAFW-2249.
- 12. Work shall be executed on locations as shown in site plan or as directed by the OC Contract/Engineer-in-Charge.
- 13. Measurements of work done shall be as per units of items given in Schedule 'A' and this mode of measurement shall take as per Clause 113 of MoRT&H Specification for road & Bridge works (Fifth Revision). The rate be quoted considering Clause 114 of MoRT&H Specification road & Bridge works (Fifth Revision)
- 14. Unit RM, mm, Cum or Cm, Sqm, Kg and quintal or Qtl wherever mentioned in the tender documents denotes the unit, Running Metre, Millimetre, Cubic Metre, Square Metre, Kilogram and Quintal respectively.
- 15. The works under this contract will be carried out within the working hours as per directions of Accepting Officer or the officer so detailed by him for administration of this contract.
- 16. The security will be arranged by the contactor for his personnel and equipment during the execution of work. No compensation will be paid by BRO on account of any loss/damage to personnel, property, veh/eqpt/plant of contactor during execution of work or on any account.
- 17. Site for execution of work shall be handed over on the date of commencement of the work as indicated in the work order No 01. In case it is not possible for the department to hand over the entire site on the date of commencement and certain portion of the site is handed over later on then contactor shall make his planning/deployment of resources accordingly and no claims of whatsoever nature on the account shall be entertained.

S/	Description of Works	Description of Works A/U		Rate per	Unit (Rs)	Amount (Rs)	
No				Figure	Word	Figure	Word
	PART-I (PERMANENT WORKS)						
Α	(25 Nos RCC Culverts various span, 16 Nos B/walls & 65 Nos R/walls)						
1	Excavation in foundation trenches or drains not exceeding 1.5m in width or area 10 sq.m on plan, including dressing & ramming, disposal of surplus soil within 50m lead & 1.5m lift (Ordinary Soil)	Cum	8524.13				
2	Providing and laying in position cement concrete excluding the cost of centering and shuttering -All works upto plinth level.1:4:8 (1 cement : 4 sand : 8 graded crushed stone 40 mm nominal size)	Cum	549.03				
3	Providing and laying in position plain cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc. upto floor five level, excluding the cost of centering and shuttering.1:3:6 (1 cement: 3 sand: 6 graded crushed rock 40 mm nominal size)	Cum	4231.21				
4	Providing and laying in position plain cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc. upto floor five level, excluding the cost of centering and shuttering.1:2:4 (1 cement: 2 sand: 4 graded crushed rock 20 mm nominal size)	Cum	2046.00				
	Total of page No. 219						

S/	Description of Works	A/U	Qty	Rate p	er Unit (Rs)	Amount (Rs)		
No			_	Figure	Word	Figure	Word	
5	Providing & laying in position reinforced cement concrete work in walls (any thickness) including attached pilasters buttresses, piers, abutments etc. upto floor five level excluding the cost of centering, shuttering and reinforcement.1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size)	Cum	231.06					
6	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork. Walls, pilasters, buttresses, string course etc.	Sqm	11798.82					
7	Providing & fixing Thermo-Mechanically Treated Reinforcement bar (Upto 12 mm) (Yield Strength 500 MPa) for R.C.C work including cutting, bending, binding and placing in position complete	Kg	3339.45					
8	Providing & fixing Thermo-Mechanically Treated Reinforcement bar (Above 12 mm) (Yield Strength 500 MPa) for R.C.C work including cutting, bending, binding and placing in position complete	Kg	29469.14					
	Total of page No. 220							

S/	Description of Works	A/U	Qty	Rate po	er Unit (Rs)	An	nount (Rs)
No				Figure	Word	Figure	Word
9	Providing and laying filter material (600mm wide) in trenches, sides of foundations, walls etc. with 100 to 200 mm stones wherever applicable.	Cum	1863.54				
10	Providing & fixing P.V.C soil waste and vent pipes, single or double socketed, including pipe clip complete (excluding the cost of PVC fittings) 110mm dia for weep Holes	R/Mtr	4356.82				
11	Providing and laying Chisel dressed dry stone soling	Cum	93.80				
12	Construction of embankment by laying dry earth in horizontal layers not exceeding 200mm in depth(compacted), including watering,power rolling,dressing and preparation of site with selected excavated earth within 50m lead		169.22				
13	White washing with lime (three coats)	Sqm	348.99				
	Total of page No. 221						

S/	Description of Works	A/U	Qty	Rate pe	er Unit (Rs)	Amo	ount (Rs)
No				Figure	Word	Figure	Word
	Bailey Bridges						
В	Construction of 20 abutments for 10 Nos of Bailey Bridges						
1	Excavation in foundation trenches or drains not exceeding 1.5m in width or area 10 sq.m on plan, including dressing & ramming, disposal of surplus soil within 50m lead & 1.5m lift (Ordinary Soil)	Cum	13306.17				
2	Construction of embankment by laying dry earth in horizontal layers not exceeding 200mm in depth(compacted), including watering,power rolling,dressing and preparation of site with selected excavated earth within 50m lead	Cum	41916.90				
3	Providing and laying in position plain cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc. upto floor five level, excluding the cost of centering and shuttering.1:3:6 (1 cement : 3 sand : 6 graded crushed rock 40 mm nominal size)	Cum	3151.04				
4	Providing & laying in position reinforced cement concrete excluding the cost of centering, shuttering and reinforcement - all work upto plinth level, 1:1.5:3, M-20 as per mixed design	Cum	1720.00				
5	Providing & laying in position reinforced cement concrete excluding the cost of centering, shuttering and reinforcement - all work upto plinth level, 1:1:2, M-30 as per mixed design	Cum	1350.66				
	Total of page No. 222						

S/	Description of Works	A/U	Qty	Rate p	er Unit (Rs)	Amount (Rs)	
No				Figure	Word	Figure	Word
	Bailey Bridges						
В	Construction of 20 abutments for 10 Nos of Bailey Bridges						
6	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork. Walls, pilasters, buttresses, string course etc.	Sqm	11615.22				
7	Providing & fixing Thermo-Mechanically Treated Reinforcement bar (Yield Strength 500 MPa) for R.C.C work including cutting, bending, binding and placing in position complete. s	Kg	223591.28				
8	Gabion Work : Providing & filling hand-packed stone in G.I mesh 4mm (8swg) including supplying and weaving of mesh complete	Cum	13410.50				
9	Providing and laying filter material in trenches, sides of foundations, walls etc. with 100 to 200 mm stones wherever applicable.	Cum	2664.00				
10	Providing & fixing P.V.C soil waste and vent pipes , single or double socketed, including pipe clip complete (excluding the cost of PVC fittings) 110mm dia for weep Holes	R/Mtr	2655.60				
	Total of page No. 223						
	G/Total (A+B) PART-I (Pmt Wks)						

S/	Description of Works	A/U	Qty	Rate per	Unit (Rs)	Amount (Rs)	
No				Figure	Word	Figure	Word
	PART-II (SURFACING WORKS)						
С	(WMM, BC 5cm thick, Road marking, Road stud and Delinators)						
1	Providing and laying wet mix macadam graded aggregate base course to required degree of compaction with proper formation of cross fall by using well graded crushed aggregates premixed with OMC using suitable mixer, motor grader as per material gradation and a aggregates quality specified (WMM 7.50 Cm thick Layer)	Cum	8563.30				
2	Providing and laying wet mix macadam graded aggregate base course to required degree of compaction with proper formation of cross fall by using well graded crushed aggregates premixed with OMC using suitable mixer, motor grader as per material gradation and a aggregates quality specified (WMM 10 Cm thick Layer)	Cum	11417.53				
3	Providing and Laying Asphalt/ Bituminous Concrete to required degree of compaction based on the job mixture design approved by the supervising engineer using asphalt plant, paver, steel roller, tyre roller etc. as per material gradation and aggregate quality specified. (BC 5 Cm thick layer)	Sqm	110049.77				
4	Providing and applying prime coat with bitumen emulsion on prepared surface of granular base including cleaning of road surface and spraying @ 7.50 kg per 10 sqm (using BPD with manual labour)		114177.26				
	Total of page No. 224						

S/	Description of Works	A/U	Qty	Rate pe	Rate per Unit (Rs)		nt (Rs)
No				Figure	Word	Figure	Word
С	(WMM, BC 5cm thick, Road marking, Road stud and Delinators)						
5	Providing and applying tack coat with bitumen 80/100 using bitumen pressure distributor @ 2.5 Kg/10 Sqm on prepared bituminous/granular surface cleaned with mechanical broom, all complete as per clause 503 of MoSRT&H specifications.	Sqm	110049.77				
6	Providing and apply Road marking with hot applied thermoplastic compound with reflectorising glass beads on Bituminous surface as per IRC:35 and technical specifications. The finished surface to be level and free from streaks and holes	Sqm	9647.66				
7	Providing and fixing of road stud 100 x 100mm, diecast in aluminium, resistant to corrosive effect of salt and grit, fitted with lens reflectors, installed in concrete or asphaltic surface by drilling hole 30mm upto a depth of 60mm and bedded in a suitable bituminous grout or epoxy mortar all as per BS 873 (Part 4) 1973	Nos	7017.00				
9	Supply and installation of delineators (1200mm) (road way indicators, hazard markers, object markers), 80-100 cm high above ground level, painted black and white in 15cm wide strips, fitted with 80x100 mm rectangular or 75mm dia circular reflectorised panels at the top, buried or pressed into the ground and confroming to IRC:79 and the drawings all complete as per clause 805 of MoRT&H specification	Nos	1578.00				
	Total of page No. 225						
	G/Total (C)Part-II						

SCHEDULE 'A'/BILL OF QUANTITIES CONTD

(a)	Total brought forward from Srl page No.219	Rs.	
(b)	Total brought forward from Srl page No.220	Rs.	
(c)	Total brought forward from Srl page No.221	Rs.	
(d)	Total brought forward from Srl page No.222	Rs.	
(e)	Total brought forward from Srl page No.223	Rs.	
(f)	Total brought forward from Srl page No.224	Rs.	
(g)	Total brought forward from Srl page No.225	Rs.	
	Grand Total	Rs	

Total (Rupees		

SCHEDULE `B' (ISSUE OF STORES TO THE CONTRACTOR)

CONSTRUCTION OF CULVERTS, R/WALL, B/WALL BETWEEN KM 11.700 TO KM 27.000, BAILEY BRIDGE ABUTMENTS BET KM 0.000 TO KM 27.000, PROVISIONING AND FIXING OF DELINEATORS & CAT EYES, PROVIDING AND LAYING OF WMM 100 MM & 75 MM COMPACTED THICKNESS, BC 50 MM COMPACTED THICKNESS INCLUDING APPLICATION OF PRIME COAT, TACK COAT, ROLLING AND COMPACTION AS PER MORT&H SPECIFICATIONS AND ROAD MARKING WITH THERMOPLASTIC PAINT 2.50 MM THICK CONFORMING TO MORT&H 803.4 INCLUDING PREPARATION OF SURFACE FOR CARRYING OUT SURFACING WORKS BETWEEN KM 0.000 TO KM 27.000 ON ROAD SAMRANG-JOMOTSANGKHA UNDER 63 RCC/19 BRTF OF PROJECT DANTAK INSIDE BHUTAN

1. The contractor has to make his own arrangement for all stores/materials required for completion of the entire work contracted for.

S No	Particulars	A/U	Rate at which stores will be issued to the contractor	Place of issue	Remarks
		Nil			

EE(C), SG SW For Accepting Officer

(Signature of the Contractor)

SCHEDULE `C'

LIST OF TOOLS AND PLANT (OTHER THAN TRANSPORT) WHICH WILL BE HIRED TO THE CONTRACTOR)

CONSTRUCTION OF CULVERTS, R/WALL, B/WALL BETWEEN KM 11.700 TO KM 27.000, BAILEY BRIDGE ABUTMENTS BET KM 0.000 TO KM 27.000, PROVISIONING AND FIXING OF DELINEATORS & CAT EYES, PROVIDING AND LAYING OF WMM 100 MM & 75 MM COMPACTED THICKNESS, BC 50 MM COMPACTED THICKNESS INCLUDING APPLICATION OF PRIME COAT, TACK COAT, ROLLING AND COMPACTION AS PER MORT&H SPECIFICATIONS AND ROAD MARKING WITH THERMOPLASTIC PAINT 2.50 MM THICK CONFORMING TO MORT&H 803.4 INCLUDING PREPARATION OF SURFACE FOR CARRYING OUT SURFACING WORKS BETWEEN KM 0.000 TO KM 27.000 ON ROAD SAMRANG-JOMOTSANGKHA UNDER 63 RCC/19 BRTF OF PROJECT DANTAK INSIDE BHUTAN

S/ No	Quantity/ Particulars		Hire charges per unit per working day	Stand by charges per unit per OFF day	Place of issue by name	Remarks				
	NIL									

SCHEDULE 'D'

TRANSPORT TO BE HIRED TO THE CONTRACTOR

CONSTRUCTION OF CULVERTS, R/WALL, B/WALL BETWEEN KM 11.700 TO KM 27.000, BAILEY BRIDGE ABUTMENTS BET KM 0.000 TO KM 27.000, PROVISIONING AND FIXING OF DELINEATORS & CAT EYES, PROVIDING AND LAYING OF WMM 100 MM & 75 MM COMPACTED THICKNESS, BC 50 MM COMPACTED THICKNESS INCLUDING APPLICATION OF PRIME COAT, TACK COAT, ROLLING AND COMPACTION AS PER MORT&H SPECIFICATIONS AND ROAD MARKING WITH THERMOPLASTIC PAINT 2.50 MM THICK CONFORMING TO MORT&H 803.4 INCLUDING PREPARATION OF SURFACE FOR CARRYING OUT SURFACING WORKS BETWEEN KM 0.000 TO KM 27.000 ON ROAD SAMRANG-JOMOTSANGKHA UNDER 63 RCC/19 BRTF OF PROJECT DANTAK INSIDE BHUTAN

S/No	Quantity/Particulars	Rate per unit per working day	Place of issue	Remarks				
	NIL							

EE(C), SG SSW For Accepting Officer

ACCEPTANCE

alterations have	ve been made in this documents and as evidence that these
alterations were made before	the execution of this contract agreement, they have been
initialed by the contractor and	Shri,
HQ CE (P) DANTAK. The said Officer(s) is/are hereby authorised to sign and initial on	
behalf the documents, forming	part of the contract on my behalf.
The above tender was accep	ted by me onday of 2023, on behalf of the
President of India for the	contract sum of Rs (Rupees
	Only) at the item rates quoted in Schedule 'A' in
favour of	
	Signature
	Brig
	Chief Engineer
	Project Dantak Accepting Officer
	For and on behalf of the President of India
	Signed this day of 2023
	EE(C), SG
ture of the Contractor)	SW For Accepting Officer
itule of the Contractor)	For Accepting Officer

TENDER

To

The President of India
Through the Chief Engineer

Project DANTAK* (*Referred to also as Accepting Officer elsewhere in the tender documents).

Having examined and perused the following documents forming part of tender documents: -

- 1. Particular/technical specifications.
- 2. Ministry of Road Transport & Highways (MoRTH) specifications for Road and Bridge works (Fifth Revision) published by Indian Road Congress New Delhi.
- 3. Detailed specifications/other tender documents.
- 4. Schedule 'A', 'B', 'C' & 'D' attached here to
- 5. Special Conditions of the Contract
- 6. General Conditions of Contracts IAFW-2249 (1989 Print) including amendments 1 to 48 and errata No 1 to 20.
- 7. All other documents forming part of tender documents

Should this tender be accepted, I/We agree: -

To execute all the works referred to in the said documents upon the terms and conditions contained or referred to therein at the item rates continued in the aforesaid Schedule 'A' or at such other rates to be fixed under the provision of condition 62 of IAFW-2249 and to carry out such deviations as may be ordered vide condition 7 of General Condition of Contacts up to a maximum of 10 percent and further agree to refer all disputes as required by condition 70 & 71 of the General Conditions of the contract (IAFW-2249) to the Sole Arbitration of an serving Engineer Officer to be appointed by the Director General Border Roads, New Delhi or in his absence, by the officer officiating as Director General Border Roads, whose decision shall be final, conclusive and binding. However, in case of disputes with PSC and or PSU the same will be referred to a Sole Arbitrator to be appointed by Secretary, Bureau of Public Sector Enterprises (refer Special condition 24 of tender documents).

Signature of Contractor	
•	in the capacity of duly
Witness:	authorized to sign the tender for and on behal
(Name in Block letters)	of M/s
Address	(In Block letters)
	Postal address:

EE(C), SG SW For Accepting Officer

(Signature of the Contractor)