



**BID DOCUMENT FOR
BALANCE WORKS OF DESIGN, SUPPLY, CONSTRUCTION,
TESTING AND COMMISSIONING OF SIGNALLING,
TELECOMMUNICATION AND ASSOCIATED WORKS OF
DOUBLE TRACK RAILWAY LINES UNDER CONSTRUCTION
ON A DESIGN BUILD LUMP SUM BASIS FOR DEEN DAYAL
UPADHYAY - NEW BHAUPUR SECTION OF EASTERN
DEDICATED FREIGHT CORRIDOR**

**SIGNALLING AND TELECOMMUNICATION WORKS
CONTRACT PACKAGE: 203(R)**

Issued on: 27.08.2020

IFB No.: HQ/S&T/EC/D-B/DDU-BPUN

(Part-5)

Employer:

**DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA
LIMITED**

A GOVERNMENT OF INDIA ENTERPRISE

Under

MINISTRY OF RAILWAYS

INDIA

PART – 5

Price Schedules

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PART – 5-Price Schedules

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PREAMBLE

1. The Price Schedules shall be read in conjunction with the “Instructions to Bidders”, “General Conditions”, “Particular Conditions”, “Employer’s Requirement”, ”Technical Specifications”, and “Drawings”.
2. The bidder shall quote *lump sum cost in INR for the entire project* **“BALANCE WORKS OF DESIGN, SUPPLY, CONSTRUCTION, TESTING AND COMMISSIONING OF SIGNALLING, TELECOMMUNICATION AND ASSOCIATED WORKS OF DOUBLE TRACK RAILWAY LINES UNDER CONSTRUCTION ON A DESIGN BUILD LUMP SUM BASIS FOR DEEN DAYAL UPADHYAY - NEW BHAUPUR SECTION OF EASTERN DEDICATED FREIGHT CORRIDOR.”** in Schedule A. The cost shall cover all the items of the work as detailed in the “Employer’s Requirement” contained in Part-2 Section-V of the Bid document as well as conforming to all specifications and stipulations laid down in the Bid Document including all addenda/corrigenda there of till the date of submission of Bids. The lump sum cost shall be inclusive of all costs on Design, Drawings, Reports, Survey, Site Facilities, Construction Equipment, Plants, Instruments, Labour, Supervision, Materials, Erection, Testing, Maintenance, Temporary Works, Site Access, Safety, Security, Defect Rectification, Insurance, Profit, Taxes and duties, Levies, Royalties and all risks, liabilities and obligations as set out or implied in the contract.
3. Bidder shall give the percentage breakup of the lump sum cost quoted in **Schedule A** in local currency. Apportionment of contract price for payments of Signal & Telecommunication and Building & Structure works shall be quoted by the Bidder in **Table-1 of Annexure-I of Schedule A**. Costs are further pre-apportioned amongst cost centres and sub-centres for works of Signalling and Telecommunication and Building & structure in Schedules C, D and E as indicated in respective Schedules. Stage payments shall be regulated accordingly.
4. **Important note for filling in blanks in Bid document**

Cost shall be legibly filled in with indelible ink or be type written in the space specifically provided. The person authorized to sign on behalf of the Bidder shall sign in full with the date at the bottom on all pages and at the end of schedules.

BDF- 20

PROPOSAL SUBMISSION SHEET
(To be submitted with Financial Proposal only)

Invitation for Bid No.:

To:

The undersigned, declare(s) that:

- (a) I/We have examined the Bidding Documents, including Amendment/Addenda issued in accordance with Instructions to Bidders (ITB) 8 and have no reservations whatsoever;
- (b) I/We offer to execute the Work in conformity with the Bidding Documents;
- (c) The total Lump-Sum price of our Bid is as per **Schedule A**;
- (d) The Apportionment of contract price for payments of Signal & Telecommunication and Building & Structure works is given in table-1 of **Annexure-I of Schedule A**.
- (e) I/We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed; and
- (f) There is no tampering or change made in the bidding documents on which the bid is being submitted and if any tampering or changes are detected at any stage, we understand the bid shall be summarily rejected with forfeiture of bid security or the contract will be liable to be terminated along with forfeiture of performance security, if LOA has been issued.
- (g) I/We understand that our bid may be rejected without assigning any reason therefore and this I/We accept.

Name

In the capacity of.....

Signed

Duly authorized to sign the Bid for and on behalf of

Date

BDF-20

Schedule A

Name of Work :- BALANCE WORKS OF DESIGN, SUPPLY, CONSTRUCTION, TESTING AND COMMISSIONING OF SIGNALLING, TELECOMMUNICATION AND ASSOCIATED WORKS OF DOUBLE TRACK RAILWAY LINES UNDER CONSTRUCTION ON A DESIGN BUILD LUMP SUM BASIS FOR DEEN DAYAL UPADHYAY - NEW BHAUPUR SECTION OF EASTERN DEDICATED FREIGHT CORRIDOR			
S. No.	Description of Schedule	Lump Sum cost in INR	
		In Figures	In Words
(1)	(2)	(3)	(4)
1	BALANCE WORKS OF DESIGN, SUPPLY, CONSTRUCTION, TESTING AND COMMISSIONING OF SIGNALLING, TELECOMMUNICATION AND ASSOCIATED WORKS OF DOUBLE TRACK RAILWAY LINES UNDER CONSTRUCTION ON A DESIGN BUILD LUMP SUM BASIS FOR DEEN DAYAL UPADHYAY - NEW BHAUPUR SECTION OF EASTERN DEDICATED FREIGHT CORRIDOR		
	Total Amount		

Note:-

- 1) The cost shall be filled in with indelible ink or be typewritten.
- 2) The above quoted cost covers all items of the work as detailed in the “Employer’s Requirement” contained in Part 2, Section–V as well as conforming to all specifications and stipulations laid down in the Bid Document including all addenda/corrigenda thereof till the date of submission of Bids.
- 3) I/We have verified and confirm that the amounts quoted in **Schedule A** above in figures agree with the amount quoted in words and that in event of any discrepancy in the two, the amount quoted in words shall be taken as final.
- 4) The cost shall be inclusive of all taxes.

SIGNATURE OF BIDDER

Annexure-I of Schedule A

Apportionment of Contract Price for Payment, Accordingly to Cost Centre is as follows:-

Table-1

Price Schedule	Cost Centre	Percentage of Contract Price
(1)	(2)	(3)
C	Signalling Works	
D	Telecommunication Works	
E	Building and Structure Works	
	Total	100%

Note:

1. The Bidders may please note that the percentage of the Contract Price to be entered in column (3) of the above **table-1** should be within the permitted range specified in column (3) of “Price Schedule B:-Apportionment of contract price for payments of Signal & Telecommunication and Building & Structure works”.
2. The total of percentages given in column (3) in the above **table-1** should be exactly 100%. In case the total is not 100%, the figures in column (3) at Column (1) Price Schedule C, D & E shall be adjusted prorata.

PRICE SCHEDULE
(Sub-clause 14.4, Condition of Contract)
Schedule – B

Apportionment of contract price for payments of Signal & Telecommunication and Building & Structure works

SN	Cost Centre of Works	Contract price as proportion of total lump sum cost quoted in Schedule A, expressed as percent
1.	Signalling Works (Schedule C)	75% - 85%
2.	Telecommunication Works (Schedule D)	15% - 25%
3.	Building & Structure works (Schedule E)	2% - 4%
	Total	100%

Notes:

1. In Table-1 of the Annexure-I of Schedule A, the Bidder is permitted to propose change as per his requirement for the component of work within the range indicated in column 3 of the above Price Schedule B, the total of which should be exactly equal to 100%. In case the total is not 100%, the figures of at Cost Centres C to E in column (3) of Table-1 of Annexure-I of Schedule A shall be adjusted prorata.
2. The Bidder is not required to fill/change any figure(s) in col. (3) of the above stated Price Schedule B.
3. The figure(s) in col. (3) of the above stated Price Schedule B shall be updated, based on the adjusted figures quoted by the Bidder in Table-1 of the Annexure-I of Schedule A, by the Employer at the time of signing the Contract.
4. The subsequent Price Schedules for Cost Centres/Sub-Cost Centres are fixed and the payment will be released for different cost centres/sub-cost centres as per respective weightings of the Contract price.
5. Please refer Sub-Clause 14.4 – Particular Conditions of Contract for further details.

LIST OF MATERIALS TO BE GIVEN TO CONTRACTOR

- a) Following materials will be given free of cost to the contractor against Indemnity Bond from the nominated depot except Video Wall which is installed at OCC:

Sl. No.	S&T Material	Unit	Approximate Quantity
1	4 Quad x 0.9 mm Cable	Kms	73
2	6 Quad x 0.9 mm cable	Kms	498
3	6 Core x 1.5 sqmm cable	Kms	519
4	12 Core x 1.5 sqmm Cable	Kms	748
5	30 Core x 1.5 sqmm Cable	Kms	9
6	2 Core x 25 sqmm AL Power cable	Kms	34
7	24 Fibre Armoured Optic Fibre Cable	Kms	1000
8	MSDAC Equipment (Frauscher make)	DPs	280
9	Video Wall screens for display of TMS and SCADA (Delta Make)	Nos.	48

- b) These materials shall be taken over by the contractor within three months from the date of issue of letter of acceptance.

LIST OF EXECUTED S&T WORKS

- a) List of works already executed in the section is given below, however the quantities are tentative. Exact quantity has to be assessed by the contractor jointly with the Engineer.

Sl.No.	Description	Quantity (Approx.)	Remark
1	Signalling Cable Laying	530 Km	This includes cables of various sorts laid in trench stretch of 45 Km.
2	HDPE Duct laying for OFC	1200 Km	Laid in two different trench stretch of 600 Km. Each trench has two HDPE ducts.
3	OFC blowing through HDPE Duct	400 Km	Laid in two different trench stretch of 200 Km. Each trench has two OFC in HDPE ducts.
4	Video wall screens at OCC	48 Nos	36 Nos for TMS and 12 Nos for SCADA.

- b) The above work is executed at various locations in the entire section.
 c) Contractor has to complete the balance activities to achieve the concerned sub-cost center of the above executed works at his own cost.
 d) This includes supply of required materials for which no extra claim will be given.

Note:

- The Bidder may inspect the above materials during the site visit as mentioned in Invitation for Bid (IFB).
- The above material will be provided on 'as it is where it is' basis.
- For the purpose of inspection of these materials bidder may contact CGM/E/ALD.

Payments for supply of Material in subsequent cost centers (C, D &E) which is intended for installation in the Permanent Works:

1. The Contractor shall ensure that the Materials delivered at site,
 - a. are as per the specifications stipulated in the Contract;
 - b. have met all the requirements of checks, inspections & tests and
 - c. are properly stored and protected against loss/pilferage, damage and deterioration.
2. The payment for supply of materials shall be made against an Indemnity Bond, for the amount of payment claimed, in favour of the Employer and valid till these materials are installed and commissioned in the Permanent Works.
3. Supplied materials shall be deemed to be the property of the Employer. The Contractor shall not remove these from Site of Work / Store without prior approval of the Engineer.
4. Record of receipt and use of materials shall be maintained by the Contractor and made available for inspection by the Engineer/Employer as and when these may be required.
5. Stage payment will be eligible on completion of the respective stage of work and approval to this effect by the Engineer.

Price Schedule C
 Apportionment of Contract Price for
SIGNALLING WORKS

(Sub-clause 14.4, GC)

Price Schedule	No.	Cost Centre	Weightage (%)	Cost
(1)	(2)	(3)	(4)	(5)
C [Signalling Works]	C1	Design and Documentation	2%	% as in Schedule C (Signalling Works) of Apportionment of Contract Price
	C2	Signalling Works at 6 Crossing stations	10%	
	C3	Signalling Works at 6 Junction Stations	24%	
	C4	Signalling Works in Automatic Block Sections	41%	
	C5	Train Management System (TMS) and Service & Diagnostic System (S&D)	10%	
	C6	Supply of Contract Spares and Special Tools & Test Equipment	10%	
	C7	Integrated Testing & Commissioning and Final Taking-Over	2%	
	C8	Training	1%	
			Total	

The proportion as indicated by the Employer in the table above are not negotiable and stage payment shall be regulated accordingly as also set out in schedules C-1 through C-8. Refer Sub clause 14.4 – Particular Conditions of Contract for further details.

Price Schedule C1
 Apportionment of Contract Price for Payment of Cost Center
DESIGN AND DOCUMENTATION FOR SIGNALLING WORKS

(Sub-clause 14.4, GC)

Cost Centre	Item of Work	Sub-Cost Centre	Stage Payment (Stage to be completed to qualify for payment of Sub-Cost Centre)	Weightage (%)	Cost	Payment Procedure
(1)	(2)	(3)	(4)	(5)	(6)	(7)
C1 [Design and Documentation for Signalling Works]	Design and Documentation	C1.1	Submission of Management Plans	5	2% of the Contract Price for Price Schedule C [Signalling works]	After Review/Approval with or without comments by the Engineer
		C1.2	Submission of Safety Assurance Plans and Documents	10		
		C1.3	Submission of Preliminary Designs & Documents	15		
		C1.4	Submission of Detailed Designs & Documents	30		
		C1.5	Submission of Construction/Installation Designs & Documents	10		
		C1.6	Submission of As Built Documents	20		
		C1.7	Submission of O&M Manuals	10		
				TOTAL	100	

Note:

- Adjustment to Contract Price pursuant to GCC 13.8 shall NOT be applicable to the payments of Works executed under this Cost Centre / Price Schedule.
- Payment will be made on Prorata Completion of each Payment Stage as per weightage given in this schedule.

Price Schedule C2
 Apportionment of Contract Price for Payment of Cost Centre
SIGNALLING WORKS AT 6 CROSSING STATIONS

(Sub-clause 14.4, GC)

Cost Centre	Item of Work	Sub-Cost Centre	Stage Payment (Stage to be completed to qualify for payment of Sub-Cost Centre)	Weightage (%)	Cost	Payment Procedure
(1)	(2)	(3)	(4)	(5)	(6)	(7)
C2 [Signalling Works At 6 Crossing Stations]	Supply of material	C2.1	Supply of Signalling Cable, Power cable and Quad Cable	4	10% of the Contract Price for Price Schedule C [Signalling Works] For One Crossing Station, the Apportioned price is 11% / n, where n is number of Crossing Stations	On supply of material at site as per approved quantity duly inspected by the appropriate authority and verified by the Engineer
		C2.2	Supply of EI hardware equipment along with associated software and accessories	34		
		C2.3	Supply of power supply equipment and batteries along with associated accessories	2		
		C2.4	Supply of track vacancy detection hardware equipment along with associated software and accessories	28		
		C2.5	Supply of signals and point machines along with associated accessories	7		
		C2.6	Supply of balance indoor equipment	1		
		C2.7	Supply of balance outdoor equipment	3		
	Installation	C2.8	Laying, Termination & Testing of outdoor cables	4		
		C2.9	Installation of all indoor equipment	1		
		C2.10	Installation of all outdoor equipment	6		
		C2.11	Supply and installation of Earthing, and Surge and Lighting Protection equipment for complete works	6		
						Review and Acceptance of Installation test report by the Engineer.

Cost Centre	Item of Work	Sub-Cost Centre	Stage Payment (Stage to be completed to qualify for payment of Sub-Cost Centre)	Weightage (%)	Cost	Payment Procedure
	Any other item	C2.12	Any other item required to be supplied, installed and tested for complete works	1		Verification/ Review/ Approval/ Acceptance by the Engineer.
	EI Installation	C2.13	Installation of EI hardware equipment along with associated software and accessories	3		Review and Acceptance of System Acceptance Test Report by the Engineer.
			TOTAL	100		

Note:

1. The boundary of Signalling Works at Crossing Station shall be from First Stop Signal to Last Stop Signal including controlling track sections in both directions.
2. Payment will be made on Prorata Completion of each sub cost center of each station as per weightage given in this schedule subject to approval to this effect by the engineer.
3. Adjustment to Contract Price pursuant to GCC 13.8 shall be applicable to the payments of Works executed under this Cost Centre / Price Schedule.
4. Item C2.12 will be deemed to have been executed after successful Integrated testing and commissioning.

Price Schedule C3
 Apportionment of Contract Price for Payment of Cost Centre
SIGNALLING WORKS AT 6 JUNCTION STATIONS

(Sub-clause 14.4, GC)

Cost Centre	Item of Work	Sub-Cost Centre	Stage Payment (Stage to be completed to qualify for payment of Sub-Cost Centre)	Weightage (%)	Cost	Payment Procedure
(1)	(2)	(3)	(4)	(5)	(6)	(7)
C3[Signalling Works at 6 Junction Stations]	Supply of material	C3.1	Supply of Signalling Cable, Power cable and Quad Cable	18	24% of the Contract Price for Price Schedule C [Signalling Works] Apportionment price for 6 Junction stations will be as under :a) Bhimsen : 13% of 24 % b) Kanpur : 15% of 24 % c) Sujatpur 8% of 24% d) Karchana : 22% of 24% e) Ahraura: 12% of 24% f) Deen Dayal Upadhyay 30% of 24%.	On supply of material at site as per approved quantity duly inspected by the appropriate authority and verified by the Engineer
		C3.2	Supply of EI hardware equipment along with associated software and accessories	24		
		C3.3	Supply of power supply equipment and batteries along with associated accessories	1		
		C3.4	Supply of Track Vacancy Detection hardware equipment along with associated System software and accessories	31		
		C3.5	Supply of signals and point Machines along with associated accessories	6		
		C3.6	Supply of equipment for Block Proving by Axle Counter for Single line sections	1		
		C3.7	Supply of balance indoor equipment	1		
		C3.8	Supply of balance outdoor equipment	3		
	Installation	C3.9	Laying, Termination & Testing of outdoor cables	3		
		C3.10	Installation of all indoor equipment	1		
		C3.11	Installation of all outdoor equipment	4		

Cost Centre	Item of Work	Sub-Cost Centre	Stage Payment (Stage to be completed to qualify for payment of Sub-Cost Centre)	Weightage (%)	Cost	Payment Procedure
	Installation	C3.12	Supply and installation of Earthing, and Surge and Lighting Protection equipment for complete works	4		
	Any other item	C3.13	Any other item required to be supplied, installed and tested for complete works within the existing scope of work	1		Verification/ Review/ Approval/ Acceptance by the Engineer.
	EI Installation	C3.14	Installation of EI hardware equipment along with associated software and accessories	2		Review and Acceptance of System Acceptance Test Report by the Engineer.
			TOTAL	100.00		

Note:

1. The boundary of Signalling Works at Junction Station shall be from First Stop Signal to Last Stop Signal including controlling track sections in both directions on DFCCIL Main lines and till IR Station (s) on single line track connecting DFCCIL and IR Stations.
2. Payment will be made on Prorata Completion of each sub cost center of each station as per weightage given in this schedule subject to approval to this effect by the engineer.
3. Adjustment to Contract Price pursuant to GCC 13.8 shall be applicable to the payments of Works executed under this Cost Centre / Price Schedule.
4. Item C3.13 will be deemed to have been executed after successful Integrated testing and commissioning.

Price Schedule C4
 Apportionment of Contract Price for Payment of Cost Centre
SIGNALLING WORKS IN AUTOMATIC BLOCK SECTIONS

(Sub-clause 14.4, GC)

Cost Centre	Item of Work	Sub-Cost Centre	Stage Payment (Stage to be completed to qualify for payment of Sub-Cost Centre)	Weightage (%)	Cost	Payment Procedure
(1)	(2)	(3)	(4)	(5)	(6)	(7)
C4 [Signalling Works in Automatic Block Sections]	Supply of material	C4.1	Supply of Signalling Cable, Power cable and Quad Cable	9	41% of the Contract Price for Price Schedule C [Signalling Works] Stage payment will be made proportionally for the track kilometers completed by the contractor.	On supply of material at site as per approved quantity duly inspected by the appropriate authority and verified by the Engineer
		C4.2	Supply of EI hardware equipment along with associated software and accessories	29		
		C4.3	Supply of power supply equipment and batteries along with associated accessories	3		
		C4.4	Supply of Track Vacancy Detection hardware equipment along with associated System software and accessories	39		
		C4.5	Supply of signals along with associated accessories	3		
		C4.6	Supply of Electric Lifting Barriers & Sliding Boom along with associated accessories.	1		
		C4.7	Supply of balance indoor equipment	1		
		C4.8	Supply of balance outdoor equipment	2		
	Installation	C4.9	Laying, Termination & Testing of outdoor cables	3		
		C4.10	Installation of all indoor equipment	1		
		C4.11	Installation of all outdoor equipment	3		

Cost Centre	Item of Work	Sub-Cost Centre	Stage Payment (Stage to be completed to qualify for payment of Sub-Cost Centre)	Weightage (%)	Cost	Payment Procedure
		C4.12	Supply and installation of Earthing, Surge and Lighting Protection equipment for complete works	3		Review and Acceptance of Installation test report by the Engineer.
	Any other item	C4.13	Any other item required to be supplied, installed and tested for complete works within the existing scope of work	1		Verification/ Review/ Approval/ Acceptance by the Engineer.
	EI Installation	C4.14	Installation of EI hardware equipment along with associated software and accessories	2		Review and Acceptance of System Acceptance Test Report by the Engineer.
			TOTAL	100.00		

Note:

1. Payment will be made on Prorata Completion of each sub cost center of each Block Section as per weightage given in this schedule subject to approval to this effect by the engineer.
2. Adjustment to Contract Price pursuant to GCC 13.8 shall be applicable to the payments of Works executed under this Cost Centre / Price Schedule.
3. Item C4.13 will be deemed to have been executed after successful Integrated testing and commissioning.

Price Schedule C5

Apportionment of Contract Price for Payment of Cost Centre

TRAIN MANAGEMENT SYSTEM (TMS) AND SERVICE AND DIAGNOSTICS SYSTEM (S&D)

(Sub-clause 14.4, GC)

Cost Centre	Item of Work	Sub-Cost Centre	Stage Payment (Stage to be completed to qualify for payment of Sub-Cost Centre)	Weightage (%)	Cost	Payment Procedure
(1)	(2)	(3)	(4)	(5)	(6)	(7)
C5 [Train Management System (TMS) and Service & Diagnostics System (S&D)]	Supply of material	C5.1	Supply of TMS hardware equipment along with associated Cables, associated software & accessories for OCC	14	10% of the Contract Price for Price Schedule C [Signalling Works]	On supply of material at site as per approved quantity duly inspected by the appropriate authority and verified by the Engineer
		C5.2	Supply of TMS hardware equipment along with associated Cables, associated software & accessories for location other than OCC	15		
		C5.3	Supply of power supply equipment and batteries along with associated accessories for OCC	3		
		C5.4	Supply of video wall display system along with associated accessories for TMS and SCADA at OCC	1		
		C5.5	Supply of Service and Diagnostic System hardware equipment along with associated Cables and accessories for OCC - Server, Switches, CMU, FEP, Monitors etc.	1		
		C5.6	Supply of Service and Diagnostic System hardware equipment along with associated Cables and accessories for Stations and Auto Locations Huts-Data Logger, Data Concentrator, HMU for battery, Power Supply, Signal, Points and MSDAC etc.	32		
		C5.7	Supply of balance equipment for TMS	6		

Cost Centre	Item of Work	Sub-Cost Centre	Stage Payment (Stage to be completed to qualify for payment of Sub-Cost Centre)	Weightage (%)	Cost	Payment Procedure
		C5.8	Supply of balance equipment for S&D System	1		
	Installation	C5.9	Installation of all TMS equipment including Video Wall Display System at OCC & TMS equipment at locations other than OCC.	1		Review and Acceptance of Installation test report by the Engineer.
		C5.10	Installation of all equipment for S&D system at OCC	1		
		C5.11	Installation of all equipment for S&D system at stations and Auto Location Huts	2		
		C5.12	Supply and installation of Earthing, Surge and Lighting Protection equipment for complete works	1		
	Any other item	C5.13	Any other item required to be supplied, installed and tested for complete works within the existing scope of work	10		Verification/ Review/ Approval/ Acceptance by the Engineer.
	System Acceptance Test	C5.14	Supply and installation of Software and system acceptance test for TMS	7		Review and Acceptance of System Acceptance Test Report by the Engineer.
		C5.15	Supply and installation of software and system acceptance test for S&D system	5		
			TOTAL	100		

Note:

1. Payment will be made on completion of each Payment Stage as per weightage given in this schedule.
2. Adjustment to Contract Price pursuant to GCC 13.8 shall be applicable to the payments of Works executed under this Cost Centre / Price Schedule.
3. Item C5.13 will be deemed to have been executed after successful Integrated testing and commissioning.

Price Schedule C6
 Apportionment of Contract Price for Payment of Cost Centre
SUPPLY OF CONTRACT SPARES AND SPECIAL TOOLS & TEST EQUIPMENTS

(Sub-clause 14.4, GC)

Cost Centre	Item of Work	Sub-Cost Centre	Stage Payment (Stage to be completed to qualify for payment of Sub-Cost Centre)	Weightage (%)	Cost	Payment Procedure	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
C6 [Supply of Contract Spares and Special Tools & Test Equipment]	Contract Spares	C6.1	Supply of Contract Spares for			10% of the Contract Price for Price Schedule C [Signalling Works]	On Supply of Contract Spares and Special Tools & Test Equipment to the Employer as per approved list duly inspected by the appropriate Authority and verified by the Engineer.
		(a)	Cables and Wires-All types	8			
		(b)	Electronic Interlocking-Cards, Modules complete with interconnecting cables & connectors, Control Terminal and all other associated accessories.	31			
		(c)	Power Supply-Cards Modules, Equipment complete with interconnecting cables & connectors and all other associated accessories.	3			
		(d)	Digital Axle Counter - Track Devices, Track Side Electronic equipment Evaluator equipment, Evaluator Cards, Modules complete with interconnecting cables & connectors and all other associated accessories.	30			
		(e)	Signals and Point Machines	3			
		(f)	TMS and S&D system	9			
	(g)	Balance items/equipment/material	7				
	Special Tools & Test equipment	C6.2	Supply of Special Tools & Test equipment	9			
			TOTAL	100			

Note:

1. Payment will be made completion of each Payment Stage as per weightage given in this schedule.
2. Adjustment to Contract Price pursuant to GCC 13.8 shall be applicable to the payments of Works executed under this Cost Centre / Price Schedule.

Price Schedule C7

Apportionment of Contract Price for Payment of Cost Centre

INTEGRATED TESTING & COMMISSIONING AND FINAL TAKING - OVER

(Sub-clause 14.4, GC)

Cost Centre	Item of Work	Sub-Cost Centre	Stage Payment (Stage to be completed to qualify for payment of Sub-Cost Centre)	Weightage (%)	Cost	Payment Procedure
(1)	(2)	(3)	(4)	(5)	(6)	(7)
C7 [Integrated Testing & Commissioning and Final Taking - Over]	Integrated Testing & Commissioning and Final Taking - Over	C7.1	Successful Completion of Integrated Testing & Commissioning		2% of the Contract Price for Price Schedule C [Signalling Works]	
		C7.1.1	Successful Completion of Integrated Testing & Commissioning New Bhaupur- New Sujatpur Section	25		Review and Acceptance of Integrated Testing & Commissioning reports by the Engineer
		C7.1.2	Successful Completion of Integrated Testing & Commissioning of New Sujatpur – Deen Dayal Upadhyay section	25		Review and Acceptance of Integrated Testing & Commissioning reports by the Engineer
		C7.2	Final Taking-Over Certificate for the complete work	50		Issue of Taking over Certificate by the Engineer
			TOTAL		100%	

Note:

1. Adjustment to Contract Price pursuant to GCC 13.8 shall NOT be applicable to the payments of Works executed under this Cost Centre / Price Schedule.
2. Payment will be made completion of each Payment Stage as per weightage given in this schedule.

Price Schedule C8
 Apportionment of Contract Price for Payment of Cost Centre
TRAINING

(Sub-clause 14.4, GC)

Cost Centre	Item of Work	Sub-Cost Centre	Stage Payment (Stage to be completed to qualify for payment of Sub-Cost Centre)	Weightage (%)	Cost	Payment Procedure
(1)	(2)	(3)	(4)	(5)	(6)	(7)
C8 [Training]	Training	C8.1	Training	100	1% of the Contract Price for Price Schedule C [Signalling Works]	On completion of Training as per approved Training Plan and submission of Training Manuals duly reviewed and/or approved by the Engineer.
			TOTAL	100%		

Note:

1. Adjustment to Contract Price pursuant to GCC 13.8 shall not be applicable to the payments of Works executed under this Cost Centre / Price Schedule.
2. Payment will be made completion of each Payment Stage as per weightage given in this schedule.

Price Schedule D
 Apportionment of Contract Price for
TELECOMMUNICATION WORKS
 (Sub-clause 14.4, GC)

Price Schedule	No.	Cost Centre	Weightage (%)	Cost
(1)	(2)	(3)	(4)	(5)
D [Telecommunication Works]	D1	Design and Documentation	2	% as in Schedule D of Apportionment of Contract Price
	D2	Telecom Works at 6 Crossing stations	8	
	D3	Telecom Works at 6 Junction Stations	9	
	D4	Telecom works at Operational Control Centre (OCC)	13	
	D5	Telecom works in Automatic Block Sections & Single Line Sections	57	
	D6	Integrated Testing & Commissioning and Final Taking-Over	2	
	D7	Contract Spares	4	
	D8	Special Tools & Test Equipment	4	
	D9	Training	1	
		Total	100	

Note:

The proportions as indicated by the Employer in the table above are not negotiable and stage payment shall be regulated accordingly as also set out in schedules D-1 through D-9. Refer Sub-Clause 14.4 – Particular Conditions of Contract for further details.

Price Schedule D1
 Apportionment of Contract Price for Payment of Cost Centre
DESIGN AND DOCUMENTATION
 (Sub-clause 14.4, GC)

Cost Centre	Item of Work	Sub-Cost Centre	Stage Payment (Stage to be completed to qualify for payment of Sub-Cost Centre)	Weightage (%)	Cost	Payment Procedure
(1)	(2)	(3)	(4)	(5)	(6)	(7)
D1 [Design and Documentation]	Management Plan	D1.1	Project Management Plan, Quality Management Plan, Quality Assurance Plan, Site Safety Plan, Design Plan	10	2 % of the Contract Price for Price Schedule D (Telecommunication Works)	After Review/ Approval with or without comment by the Engineer
		D1.2	Reliability Plan, Maintainability Plan, Interface Management Plan, EMC Management Plan, Procurement, Manufacturing & Supply Plan, Software Support Plan, Factory Acceptance Testing Plan, Construction and Installation Management Plan, On-site Testing & Commissioning Plan	10		
		D1.3	Operation & Maintenance Plan, Training Plan, Spare Parts & Consumable Management Plan, Defect Liability Management Plan, Maintenance Manpower Plan, Trial Run Plan.	5		
	Design Document	D1.4	All Preliminary Design Documents including RAMS Documents	10		
		D1.5	All Detailed Design Documents including EMC Documents & Interface Specification for complete works	15		
		D1.6	All Installation Design Documents for Complete Works	10		
	O&M Manuals	D1.7	O&M Manual for Completed Works	15		
	As-Built Drawings	D1.8	As-Built Drawings for Completed Works	20		
	Any other documents	D1.9	Balance documentation required to be given as part of the Contract	5		
			Total	100		

Note:

- Adjustment to Contract Price pursuant to GCC 13.8 shall NOT be applicable to the payments of Works executed under this Cost Centre / Price Schedule.
- Payment will be made on Completion of each Payment Stage as per weightage given in this schedule.

Price Schedule D2

Apportionment of Contract Price for Payment of Cost Centre

TELECOM WORKS AT 6 CROSSING STATIONS

(Sub-clause 14.4, GC)

Cost Centre	Item of Work	Sub-Cost Centre	Stage Payment (Stage to be completed to qualify for payment of Sub-Cost Centre)	Weightage (%)	Cost	Payment Procedure
(1)	(2)	(3)	(4)	(5)	(6)	(7)
D2 [Telecom Works At 6 Crossing Stations]	Supply of material	D2.1	Supply of PIJF Telephone Cables	3	8% of the Contract Price for Price Schedule D [Telecommunication Works]	On Supply of Material at Site as per Approved Quantity duly Inspected by the Appropriate Authority and verified by the Engineer.
		D2.2	Supply of OFC System Hardware along with associated software & accessories.	10		
		D2.3	Supply of Data Networking System Hardware along with associated software & accessories.	27		
		D2.4	Supply of Telephone System Hardware along with associated software & accessories.	34		
		D2.5	Supply of Master Clock System Hardware along with associated software & accessories.	4		
		D2.6	Supply of VHF communication System Hardware along with associated software & accessories.	4		
		D2.7	Supply of 48 V DC Battery Backup System Hardware along with associated software & accessories.	8		
		D2.8	Supply of balance Indoor and Outdoor equipment	2		
	Installation	D2.9	Installation of all indoor equipment	1		Review and Acceptance of Installation Test Report by the Engineer.
		D2.10	Installation of all outdoor equipment	1		
		D2.11	Laying, Termination & Testing of outdoor Telecom Cables.	4		
		D2.12	Installation of Earthing and Surge Protection equipment	1		
	System Acceptance Test	D2.13	Supply and installation of software and system acceptance test	1		Review and Acceptance of System Acceptance Test Report by the Engineer.
			TOTAL	100		

- Note:**
1. Telecom Works at Crossing Station shall also include Telecom works up to and at nearest IMD, IMSD and Residential Colonies.
 2. Payment will be made on Prorata completion of each Payment Stage as per weightage given in this schedule.
 3. Adjustment to Contract Price pursuant to GCC 13.8 shall be applicable to the payments of Works executed under this Cost Centre / Price Schedule.

Price Schedule D3

Apportionment of Contract Price for Payment of Cost Centre

TELECOM WORKS AT 6 JUNCTION STATIONS

(Sub-clause 14.4, GC)

Cost Centre	Item of Work	Sub-Cost Centre	Stage Payment (Stage to be completed to qualify for payment of Sub-Cost Centre)	Weightage (%)	Cost	Payment Procedure
(1)	(2)	(3)	(4)	(5)	(6)	(7)
D3 [Telecom Works At 6 Junction Stations]	Supply of material	D3.1	Supply of PIJF Telephone Cables	3	9% of the Contract Price for Price Schedule D [Telecommunication works]	On Supply of Material at Site as per Approved Quantity duly Inspected by the Appropriate Authority and verified by the Engineer.
		D3.2	Supply of OFC System Hardware along with associated software & accessories.	10		
		D3.3	Supply of Data Networking System Hardware along with associated software & accessories.	26		
		D3.4	Supply of Telephone System Hardware along with associated software & accessories.	33		
		D3.5	Supply of Master Clock System Hardware along with associated software & accessories.	5		
		D3.6	Supply of VHF communication System Hardware along with associated software & accessories.	5		
		D3.7	Supply of 48 V DC Battery Backup System Hardware along with associated software & accessories.	8		
		D3.8	Supply of balance Indoor and outdoor equipment	2		
	Installation	D3.9	Installation of all indoor equipment	1		Review and Acceptance of Installation Test Report by the Engineer.
		D3.10	Installation of all outdoor equipment	1		
		D3.11	Laying, Termination & Testing of Outdoor Telecom Cables	4		
		D3.12	Installation of Earthing and Surge Protection equipment	1		
	System Acceptance Test	D3.13	Supply and installation of Software and system acceptance test	1		Review and Acceptance of System Acceptance Test Report by the Engineer.
				TOTAL		100

Note:

1. Telecom Works at Junction Stations shall also include Telecom works up to and at nearest IMD, IMSD and Residential Colonies.
2. Telecom Works at Junction shall also include Telecom works up to and at nearest IR Station.
3. Payment will be made on Prorata completion of each Payment Stage as per weightage given in this schedule.
4. Adjustment to Contract Price pursuant to GCC 13.8 shall be applicable to the payments of Works executed under this Cost Centre / Price Schedule.

Price Schedule D4
 Apportionment of Contract Price for Payment of Cost Centre
TELECOM WORKS AT OPERATIONAL CONTROL CENTRE (OCC)
 (Sub-clause 14.4, GC)

Cost Centre	Item of Work	Sub-Cost Centre	Stage Payment (Stage to be completed to qualify for payment of Sub-Cost Centre)	Weightage (%)	Cost	Payment Procedure
(1)	(2)	(3)	(4)	(5)	(6)	(7)
D4 [Telecom Works at Operational Control Centre (OCC)]	Supply of material	D4.1	Supply of PIJF Telephone Cables	1	13 % of the Contract Price for Price Schedule D [Telecommunication Works]	On Supply of Material at Site as per Approved Quantity duly Inspected by the Appropriate Authority and verified by the Engineer.
		D4.2	Supply of OFC System Hardware along with associated software & accessories.	2		
		D4.3	Supply of Data Networking System Hardware along with associated software & accessories.	6		
		D4.4	Supply of Telephone System Hardware along with associated software & accessories.	8		
		D4.5	Supply of Master Clock System Hardware along with associated software & accessories.	3		
		D4.6	Supply of 48V DC Battery Backup System Hardware along with associated accessories.	3		
		D4.7	Supply of MTRC System Hardware along with associated accessories	67		
		D4.8	Supply of balance Indoor and outdoor equipment	2		
	Installation	D4.9	Installation of all indoor equipment	3		Review and Acceptance of Installation Test Report by the Engineer.
		D4.10	Installation of all outdoor equipment	1		
	Installation	D4.11	Installation of Earthing and Surge Protection equipment	1		Review and Acceptance of Installation Test Report by the Engineer.
	System acceptance test	D4.12	Supply and installation of software and System Acceptance Test	3		Review and Acceptance of System Acceptance Test Report by the Engineer.
			TOTAL			100

Note:

1. Payment will be made on completion of each payment stage as per weightage given in this schedule.
2. Adjustment to Contract Price pursuant to GCC 13.8 shall be applicable to the payments of works executed under this Cost Centre / Price Schedule.

Price Schedule D5

Apportionment of Contract Price for Payment of Cost Centre

TELECOM WORKS IN AUTOMATIC BLOCK SECTIONS & SINGLE LINE SECTIONS

(Sub-clause 14.4, GC)

Cost Centre	Item of Work	Sub-Cost Centre	Stage Payment (Stage to be completed to qualify for payment of Sub-Cost Centre)	Weightage (%)	Cost	Payment Procedure
(1)	(2)	(3)	(4)	(5)		(5)
D5 [Telecom works in Automatic Block Sections & Single Line Sections]	Supply of material	D5.1	Supply of Optic Fibre Cables including HDPE Duct	24	57 % of the Contract Price for Price Schedule D [Telecommunication Works] Stage payment will be made proportionally for the track kilometers completed by the contractor.	On supply of material at site as per approved quantity duly inspected by the appropriate authority and verified by the Engineer.
		D5.2	Supply of OFC System Hardware along with associated software & accessories.	22		
		D5.3	Supply of Cab Radio complete with power supply, battery pack, antenna, software & accessories	2		
		D5.4	Supply of OPH & GPH complete with accessories, battery pack and carry case and 100% spare batteries	9		
		D5.5	Supply of Radio Towers complete with antenna, cables, aviation lighting Earthing etc.	15		
		D5.6	Supply of BSS System Hardware along with associated accessories for MTRC	4		
		D5.7	Supply of 48V DC Battery Backup System Hardware along with associated accessories.	8		
		D5.8	Supply of balance Indoor and outdoor equipment	2		
	Installation	D5.9	Installation of all Indoor equipment	1		Review and acceptance of Installation Test Report by the Engineer.
		D5.10	Installation of all outdoor equipment	1		
		D5.11	Laying, Termination & Testing of Outdoor Telecom Cables	10		
	Installation	D5.12	Installation of Earthing and Surge Protection equipment	1		Review and acceptance of Installation Test Report by the Engineer.

Design and Build Contract for Signalling and Telecommunication works

	System Acceptance Test	D5.13	System Acceptance Test	1		Review and acceptance of System Acceptance Test Report by the Engineer.
			TOTAL	100		

Note:

1. Telecom Works in Automatic Block Sections shall cover all Telecom Works between two adjacent Crossing Stations/ Junction Stations and shall also include Telecom Works at TSS, SP, SSP and other Buildings.
2. Payment will be made on prorata completion of each payments Stage as per weightage given in this schedule.
3. Adjustment to Contract Price pursuant to GCC 13.8 shall be applicable to the payments of Works executed under this Cost Centre / Price Schedule.

Price Schedule D6

Apportionment of Contract Price for Payment of Cost Centre

INTEGRATED TESTING & COMMISSIONING AND FINAL TAKING - OVER

(Sub-clause 14.4, GC)

Cost Centre	Item of Work	Sub-Cost Centre	Stage Payment (Stage to be completed to qualify for payment of Sub-Cost Centre)	Weightage (%)	Cost	Payment Procedure
(1)	(2)	(3)	(4)	(5)	(6)	(7)
D6 [Integrated Testing & Commissioning and Final Taking - Over]	Integrated Testing & Commissioning and Final Taking - Over	D6.1	Successful Completion of Integrated Testing & Commissioning		2 % of the Contract Price for Price Schedule D [Telecommunication Works]	
		D6.1.1	Successful Completion of Integrated Testing & Commissioning of New Bhaupur – New Sujatpur section	25		Review and Acceptance of Integrated Testing and Commissioning Report by the Engineer.
		D6.1.1	Successful Completion of Integrated Testing & Commissioning of New Sujatpur – Deen Dayal Upadhyay section	25		Review and Acceptance of Integrated Testing and Commissioning Report by the Engineer.
		D6.2	Final Taking - Over Certificate for the complete work	50		Issue of taking over Certificate by the Engineer.
			Total	100		

Note:

1. Adjustment to Contract Price pursuant to GCC 13.8 shall be NOT applicable to the payments of Works executed under this Cost Centre / Price Schedule.
2. Payment will be made completion of each Payment Stage as per weightage given in this schedule.

Price Schedule D7

Apportionment of Contract Price for Payment of Cost Centre

CONTRACT SPARES

(Sub-clause 14.4, GC)

Cost Centre	Item of Work	Sub-Cost Centre	Stage Payment (Stage to be completed to qualify for payment of Sub-Cost Centre)	Weightage (%)	Cost	Payment Procedure
(1)	(2)	(3)	(4)	(5)	(6)	(7)
D7 [Contract Spares]	Contract Spares	D7.1	Supply of Contract Spares along with all other associated accessories	100	4 % of the Contract Price for Price Schedule D [Telecommunication Works]	On Supply of Contract Spare to the Employer as per approved list duly inspected by the Appropriate Authority and Approved by the Engineer.
			Total	100		

Note:

1. Payment will be made on completion of each Payment Stage as per weightage given in this schedule.
2. Adjustment to Contract Price pursuant to GCC 13.8 shall be applicable to the payments of Works executed under this Cost Centre / Price Schedule.

Price Schedule D8

Apportionment of Contract Price for Payment of Cost Centre

SPECIAL TOOLS & TEST EQUIPMENT

(Sub-clause 14.4, GC)

Cost Centre	Item of Work	Sub-Cost Centre	Stage Payment (Stage to be completed to qualify for payment of Sub-Cost Centre)	Weightage (%)	Cost	Payment Procedure
(1)	(2)	(3)	(4)	(5)	(6)	(7)
D8 [Special Tools & Test Equipment]	Special Tools and Test Equipment	D8.1	Supply of Special Tools and Test Equipment along with all other associated accessories, Operation and Maintenance Manual and Calibration Certificate	100	4 % of the Contract Price for Price Schedule D (Telecommunication)	On Supply of Special Tools and Test Equipment to the Employer as per approved list duly inspected by the Appropriate Authority and Approved by the Engineer.
			Total	100		

Note:

1. Adjustment to Contract Price pursuant to GCC 13.8 shall be applicable to the payments of Works executed under this Cost Centre / Price Schedule.
2. Payment will be made on completion of each Payment Stage as per weightage given in this schedule.

Price Schedule D9

Apportionment of Contract Price for Payment of Cost Centre

TRAINING

(Sub-clause 14.4, GC)

Cost Centre	Item of Work	Sub-Cost Centre	Stage Payment (Stage to be completed to qualify for payment of Sub-Cost Centre)	Weightage (%)	Cost	Payment Procedure
(1)	(2)	(3)	(4)	(5)	(6)	(7)
D9 [Training]	Training	D9.1	Training	100	1 % of the Contract Price for Price Schedule D (Telecommunication Works).	On competition of Training as per Approved Training Plan and Submission of Training Manuals duly Reviewed and/or Approved by the Engineer.
			Total	100		

Note:

1. Payment will be made on completion of each Payment Stage as per weightage given in this schedule.
2. Adjustment to Contract Price pursuant to GCC 13.8 shall not be applicable to the payments of Works executed under this Cost Centre / Price Schedule.

Price Schedule E

Apportionment of Contract Price for Payment of Cost Centre

BUILDING AND STRUCTURE WORKS

(Sub-clause 14.4, GC)

Price Schedule Cost Centre	No.	Cost Center	Weightage (%)	Cost
(1)	(2)	(4)	(5)	(6)
E [Building and Structure Works]	E1	Building and Structure Works	100	% as in Schedule E (Building & Structure Works) of Appointment of Contract Price.
		Total	100	

The proportions as indicated by the Employer in the table above are not negotiable and stage payment shall be regulated accordingly as also set out in schedules E-1. Refer Sub-Clause 14.4 – Particular Conditions of Contract for further details.

Price Schedule E1

Apportionment of Contract Price for Payment of Cost Centre

BUILDING AND STRUCTURE WORKS

(Sub-clause 14.4, GC)

Cost Centre	Item of work	Sub-Cost Centre	Stage Payment (Stage to be completed to qualify for Payment of Sub-Cost Centre)	Weightage (%)	Cost	Payment Procedure
(1)	(2)	(3)	(4)	(5)	(6)	(7)
E1 [Buildings and Structures Works]	Buildings and Structures works	E1.1	On completion of Foundation upto plinth level as per the Employer's Requirement.	25%	100% of the contract price for Price Schedule E [the payment will be made proportionally for total number of buildings and structural]	Acceptance of the civil works by the Engineer
		E1.2	On completion of brick work up to roof level including fixing of door and window frames as per the Employer's Requirement.	20%		Acceptance of the civil works by the Engineer
		E1.3	On completion of roof casting, plastering, fixing door / window shutters, Painting door window shutters works in the buildings, electrical conducting works and final finishing with all works complete as per the Employer's Requirement.	40%		Acceptance of the civil works by the Engineer
		E1.4	On completion of Boundary wall, circulating area, stairs, roads, drainage, water supply works outside the buildings, street lighting, if any.	15%		Issue of completion certificate for the Buildings and Structures by the Engineer

Note:

- Adjustment to Contract Price pursuant to GCC 13.8 shall be applicable to the payments of Works executed under this Cost Centre / Price Schedule.
- Payment will be made on Pro-rata completion of each Payment Stage as per weightage given in this schedule subject to approval to this effect by the engineer.
- Status of Auto Location Hut (ALH) & Relay Hut (RH) already executed in the section is given below, however status of work are tentative. Exact ALH & RH work has to be assessed by the contractor himself. Any modification/alteration/addition, if required has to be done by contractor.
- The above work is executed at various locations in the entire section.
- Contractor has to complete the balance activities to achieve the concerned sub-cost center of the above executed works at his own cost.
- This includes supply of required materials for which no extra claim will be given.

Auto Location Huts (ALHs) to be constructed by contractor

S.No.	ALH No.	Chainage	Tentative Status of ALH
1	201	129.080	Column Below Plinth
2	202	133.680	Excavation
3	203	142.752	Slab completed
4	204	148.281	Slab completed
5	205	153.490	Plaster work completed
6	206	158.160	Plaster work completed
7	207	167.820	Brick work completed
8	208	173.700	Brick work completed
9	209	177.620	Tie beam completed
10	210	183.640	PCC completed
11	211	189.403	Slab completed
12	212	197.785	Column Below Plinth
13	213	202.040	Brick work completed
14	214	207.964	Slab completed
15	215	213.700	Brick work completed
16	216	219.400	Slab completed
17	217	224.900	Slab completed
18	218	229.900	Slab completed
19	219	240.400	Slab completed
20	220	243.976	Slab completed
21	221	248.960	Slab completed
22	222	254.504	Slab completed
23	223	259.542	Slab completed
24	224	265.700	Slab completed
25	225	275.060	Column Below Plinth
26	226	280.991	Column Below Plinth
27	227	287.038	Column Below Plinth
28	228	292.558	Plinth Beam completed
29	229	301.180	Column Below Plinth
30	230	306.500	Foundation completed
31	231	312.640	Plinth Beam completed
32	232	318.600	Column Below Plinth
33	233	324.644	Column Below Plinth
34	234	329.200	Slab completed
35	255	465.469	Column Below Plinth
36	256	471.340	Column Below Plinth
37	257	474.957	Slab completed
38	258	480.653	Brick work completed
39	259	491.500	NIL
40	260	497.760	Column Below Plinth
41	261	502.100	Excavation
42	262	506.400	NIL

Relay Huts (RHs) to be constructed by contractor

S.No.	Station Name	Chainage	RH No.	Tentative Status
1	New BZM	484.440	RH-01	NIL
		486.940	RH-02	NIL
2	New MRE	294.980	RH-01	NIL
		332.300	RH-02	Column below Plinth beam
3	New KCN	267.480	RH-01	NIL
		269.740	RH-02	NIL
4	New UND	233.720	RH-01	Column below Plinth beam
		235.840	RH-02	Layout & Marking
5	New MZP	191.700	RH-01	Layout & Marking
		193.680	RH-02	NIL
6	New DAP	161.500	RH-01	Column below Plinth beam
		163.440	RH-02	Slab
7	New ARW	138.200	RH-01	NIL
		140.480	RH-02	NIL
8	DDU	To be decided	To be decided	NIL

List of ALH and RH to be handed over by DFCCIL to Bidder

1. Auto location huts (ALHs)

The present status is given below. However, civil work of these ALHs will be completed by Employer and handed over to successful contractor.

S. No.	ALH No.	Chainage	Status of ALH
1	235	336.240	Plinth beam completed
2	236	342.244	Plinth beam completed
3	237	348.740	PCC Completed
4	238	354.540	Slab completed
5	239	360.586	Column upto Slab
6	240	366.934	Plinth beam completed
7	241	372.650	Foundation Completed
8	242	383.350	Foundation Completed
9	243	389.500	Slab completed
10	244	395.050	Tie beam Completed
11	245	400.757	Slab completed
12	246	406.590	Slab completed
13	247	412.250	Foundation Completed
14	248	417.700	Foundation Completed
15	249	427.259	Slab completed
16	250	432.905	Layout and Marking
17	251	437.035	Foundation Completed
18	252	442.999	Slab completed
19	253	448.942	Slab completed
20	254	454.917	Plinth beam completed

2. Relay Huts (RHs)

The present status is given below. However, civil work of these RHs will be completed by Employer and handed over to successful contractor.

S. No.	Station Name	Chainage	RH No.	Status
1	New SJT	332.530	RH-01	Column below Plinth beam
		334.540	RH-02	Column below Plinth beam
2	New RUB	377.240	RH-01	Column below Plinth beam
		379.230	RH-02	-
3	New MHW	421.630	RH-01	Column below Plinth beam
		423.640	RH-02	Column below Plinth beam
4	New CNB	459.500	RH-01	Column below Plinth beam
		461.300	RH-02	Column below Plinth beam