**Tender No:** DFC-AII-Madar-NewPalanpur **Closing Date/Time:** 01/09/2025 15:00

**GM/Co./DFCCIL/AJMER** acting for and on behalf of The President of India invites E-Tenders against Tender No **DFC-AII-Madar-NewPalanpur** Closing Date/Time 01/09/2025 15:00 Hrs. Bidders will be able to submit their original/revised bids upto closing date and time only. Manual offers are not allowed against this tender, and any such manual offer received shall be ignored.

### 1. NIT HEADER

Name of Work	Telecommunication Gears/	ement & Maintenance of Signalli Equipment and other related wo n Dedicated Freight Corridor (Wi	rk in Madar-New
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Single Packet System
Tender Closing Date Time	01/09/2025 15:00	Date Time Of Uploading Tender	08/08/2025 16:38
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	48385170.00	Tendering Section	WORKS 1
Bidding Style	Single Rate for Each Schedule	Bidding Unit	
Earnest Money (Rs.)	391900.00	Validity of Offer ( Days)	90
Tender Doc. Cost (Rs.)	11800.00	Period of Completion	24 Months
Contract Type	Works - General	Contract Category	Expenditure
Bidding Start Date	18/08/2025		
Are JV allowed to bid	No	Number of JV Member Allowed	0
Are Consortium allowed to bid	No	Number of Consortium Member Allowed	0
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Revenue

### 2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
ISCHARINA () A-Need based Skil work items								Above/ Below/Par
	1	3900.00	Per Conductor	11.28	43992.00	AT Par	43992.00	
1	<b>Description:-</b> Termination of Outdoor Cables (Main Cables /tail cables) at both ends in location boxes, cable termination rack in relay room, station building, generator room etc. The item included dressing of cables and wires with dressing threads as per standard industrial practice. All matering required for this item will be supplied by contractor. The outdoor cable shall be terminated in Relationary, DG Room, ASM Room etc. under supervision and instructions issued by Engr. incharge of the work.							
	02	31500.00	cum	248.50	7827750.00	AT Par	7827750.00	
Description:- Digging of 1.2 mtr deep and 0.3 mtr wide trenches in all type of soils, including sof rock as per approved cable route plan and back filling the trench after laying of cables.lt includes clearing of roots of trees and bushes and temporary obstructions on the selected cable route ramming of soil and planting of cable marker at every 50 mtrs and at every locations where direction of trench changes. The item includes covering of laid cables by sieved soil upto 5 cm before covering by bricks. Where digging of 1.2 mtr depth is not possible or depth is reduced/increased as per instructions given by engineer incharge then payment will be decreased/increased proportionately to the depth of trench. Note: Cable trenching between Station Limit (i.e. from Distant to Distant Signals, should be done at distance of 3.0 mtrs(minimum) from centre line of track and Outside Station Limit cable trenching will be done at distances are not available at site then trenching will be done by contractor as								
	cable tre	enching will ed minimum	be done at	distance of 5 e not availab	.5 mtrs(minimur	n) from c	entre line of tra	tation Limit ck. If above

**Tender No:** DFC-All-Madar-NewPalanpur **Closing Date/Time:** 01/09/2025 15:00

cabling. It includes supply, transportation and insertion of self lubricated HDPE Pipe and laying of cables in boring under the track/road by using different sizes of pipes depending on total number of cables will be crossed. The depth of horizontal boring should be minimum 1 mtr from rail flange/road cables will be crossed. The depth of horizontal boring should be minimum 1 mtr from rail flange/road level. This item will be used for track crossing of running lines. By using self lubricated HDPE pipes 120 mm outer dia. and 103.5 mm inner dia. In the bore and laying of cables in the bore under the track/road.  Description: Laying of ScX cables of various cores/pairs/quads in trenches/GI Pipes/RCC ducts DWC Pipes/Trunking etc. Jaying of OEO ducts in trenches including laying of cables in track crossings and road crossings. It includes placing of half cut DWC pipes, pre-fabricated ducts and DWC pipes. It also includes provision of labels on each cable of coloured plastic adhesive tapes or any other identifiable marker to give the cable number at each termination point G.P. The contractor will do meggering of a the cables (main & tail) before laying as well as after laying under the supervision of enginee incharge. Meggering test report of each cable will be signed jointly by authorized site representative of contractor and site engineer incharge. Note: The length of the cables laid will include the length of the cables will be supplied by DFCCIL.  Description: Cement concrete work for miscellaneous litems in ratio 13:6, Items includes excavation and SAM will be supplied by DFCCIL.  Description: Supply proparation, splicing and installation of straight joint for degregate will be cement and sand mixture both sides of bricks with thexiess 20 om each end with contractors on the exceeded beyond 3.8 cm). The aggregate cement and sand will be supplied by contractor.  Description: Supply, preparation, splicing and installation of straight joint for 48 fibers along with enclosures with heat shrinkable splice protection sl	<b> </b> 3	Description:- All work pertaining to Horizontal Directional Drilling (HDD)/Boring and trenchless
cables will be crossed. The depth of horizontal boring should be minimum 1 mtr from rail flange/roal level. This item will be used for track crossing of running lines. By using self lubricated HDPE piece 120 mm outer dia. and 103.5 mm inner dia. in the bore and laying of cables in the bore under the track/road.    Description-Laying of Scf cables of various cores/pairs/guads in trenches/Gl Pipes/RCC ducts/ DW Pipes/Trunking etc. Jaying of OFC ducts in trenches including laying of cables in track crossing SM road crossings. It includes placing of half cut DWC pipes, pre-fabricated ducts and DWC pipes. It includes provision of labels on each cable of coloured plastic adhesive tapes or any other identifiable marker to give the cable number at each termination point G.P. The contractor will do meggering on the cables (main & tail) before laying as well as after laying under the supervision of engine incharge. Meggering test report of each cable will be signed jointly by authorized site representative of contractor and site daily before laying as well as after laying under the supervision of engine incharge. Meggering test report of each cable will be signed jointly by authorized site representative of contractor and site engineer incharge. Note: The length of the cables laid will include the length of the cables will be supplied by DFCCIL.    Description: Cerement concrete work for miscellaneous litems in ratio 1.36, Items includes excavation ramming of CC by using vibrator, curing and plastering with cement and sand mixture (aggregate wind exceed beyond 3.8 cm). The aggregate cement and sand will be supplied by contractor.    Description: Providing brick masonry in ratio 1.6 cement and mortar including plastering with 1: cement and sand mixture both sides of bricks with thickness 20 mm each end with contractors with Bricks, sand and cement (ISI mark) will be supplied by the Contractor.    OF 125.00   Numbers   15217.50   1902187.50   AT Par   1902187.50     Description: Supply, preparation, splicing and installati		cabling. It includes supply, transportation and insertion of self lubricated HDPE Pipe and laying of
level. This Item will be used for track crossing of running lines. By using self lubricated HDPE Pipe of 120 mm outer dia. and 103.5 mm liner dia. in the bore and laying of cables in the bore under the track/road.  All 13650.0 Running of SAT cables of various cores/pairs/quads in trenches/GI Pipes/RCC ducts/DWI Pipes/Trunking etc. Jaying of OFC ducts in trenches including laying of cables in track crossings and road of the property of the pro		cables in boring under the track/road by using different sizes of pipes depending on total number of
120 mm outer dia. and 103.5 mm inner dia. In the bore and laying of cables in the bore under the track/road.  4 13650.00 Running Metre  5 26 4 88179.00 AT Par 88179.00  Description: Laying of ScX cables of various cores/pairs/quads in trenches/GI Pipes/RCC ducts J Williams of Cable in Chudes place including laying of cables in track crossings and road crossings. It includes placing of half cut DWC pipes, pre-fabricated ducts and DWC pipes, first place of the cables of cable of coloured plastic adnessive tapes or any other identification and the cables (main 64 table) and each cable of coloured plastic adnessive tapes or any other identification of contractor and site at fail) before laying as well as after laying under the supervision of enginee incharge. Meggering test report of each cable will be signed jointly by authorized site representative of contractor and site engineer incharge. Note: The length of the cables is will include the length of the cables which have been coiled for termination purposes. Half cut DWC pipes, prefabricated duct and DWC pipes shall be supplied by DFCCIL.  5 Description: Cemment concrete work for miscellaneous items in ratio 1:3:6. Item includes excavation ramming of CC by using vibrator, cruming and plastering with cement and sand mixture (aggregate win ot exceed beyond 3:8 cm). The aggregate cement and sand will be supplied by contractor.  6 42.00 cum   T175.24   T2040.08   AT Par   T2040.08   Descriptions: Providing brick masony in ratio 1:6 cement and mortar including plastering with 1: cement and sand mixture both sides of bricks with thickness 20 mm each end with contractor with the startick, sand and cement (ISI mark) will be supplied by the Contractor.  7 125.00   Numbers   15217.50   1902187.50   AT Par   1902187.50    7 Description: Supply, preparation, splicing and installation of straight joint for 48 fibers along with enclosures with heat shrinkable splice protection sleeve as per TEC Specn.G/O/C-02/O March-99 of a steep. Splice losses in no case should be more than		
Description:- Laying of S&T cables of various cores/pairs/quads in trenches/GI Pipes/RCC ducts/ DWC Pipes/Trunking etc. Jaying of OPC ducts in trenches including laying of cables in track crossings at includes placing of half cut DWC pipes, pre-fabricated ducts and DWC pipes. It als includes provision of labels on each cable of coloured plastic adhesive tapes or any other identificable marker to give the cable number at each termination point G.P. The contractor will do megagering of a the cables (main & tail) before laying as well as after laying under the supervision of enginee incharge. Meggering test report of each cable will be signed jointly by authorized site representative of contractor and site engineer incharge. Note: The length of the cables laid will include the length of contractor and site engineer incharge. Note: The length of the cables laid will include the length of contractor and site engineer incharge. Note: The length of the cables laid will include the length of contractor and site engineer incharge. Note: The length of the cables laid will include the length of contractor and site engineer incharge. Note: The length of the cables laid will include the length of contractors.  Description:- Cement concrete work for miscellaneous items in ratio 1:3:6. Item includes excavation and the contractor incharges and the cables and will be supplied by contractor.  Description:- Providing brick massonry in ratio 1:6 cement and sond will the supplied by contractor.  Description:- Providing brick massonry in ratio 1:6 cement and mortar including plastering with 1:c cement and sand mixture obtained by the Contractor.  Description:- Supply, preparation, splicing and installation of straight joint for 24 fibers along will enclosures with heat shrinkable splice protection sleeve as per TEC Specn.G/G/C-02/D1 March-99 o latest. Splice losses in no case should be more than 0.1 dB.  Description:- Supply, preparation, splicing and installation of straight joint for 46 fibers along will enclosures with heat shrin		120 mm outer dia. and 103.5 mm inner dia. in the bore and laying of cables in the bore under the
Description: Laying of SoT cables of various cores/pairs/quads in trenches/RC Place/RC ducts DW/Ppes/Trunking etc. Jaying of OFC ducts in trenches/abricated ducts and DWC pipes. It also includes provision of labels on each cable of coloured plastic adhesive tapes or any other identifiable includes provision of labels on each cable of coloured plastic adhesive tapes or any other identifiable marker to give the cable number at each termination point G. P. The contractor will do megaging of a the eables (main & tail) before laying as well as after laying under the supervision of enginee incharge. Megaging test report of each cable will be signed jointly by authorized site representative or contractor and site engineer incharge. Note: The length of the cables had will include the length of the cables which have been coiled for termination purposes. Half cut DWC pipes, prefabricated duct and DWC pipes shall be supplied by DFCCIL.  05		
Pipes/Trunking etc, Jaying of OFC ducts in trenches including laying of cables in track crossings is includes placing of half cut DVC pipes, pre-fabricated ducts and DWC pipes, it also includes provision of labels on each cable of coloured plastic adhesive tapes or any other identifiable marker to give the cable number at each termination point G.P. The contractor will do meggering of a the cables (main & tail) before laying as well as after laying under the supervision of enginee incharge. Meggering test report of each cable will be signed jointly by authorized site representative of contractor and site engineer incharge. Note: The length of the cables laid will include the length of contractor and site engineer incharge. Note: The length of the cables laid will include the length of the cables which have been coiled for termination purposes. Half cut DWC pipes, prefabricated duct and DWC pipes shall be supplied by DFCCIL.  105		104   1 1 20 20 001   -1   0 401   001 / 9 001   A1 PAIT   001 / 9 001
road crossings. It includes placing of half cut DWC pipes, pre-fabricated ducts and DWC pipes. It als includes provision of labels on each cable of coloured plastic adhesive tapes or any other identifiable marker to give the cable number at each termination point G.P. The contractor will do meggering of a the cables (main & tail) before laying as well as after laying under the supervision of enginee incharge. Meet still before laying as well as after laying under the supervision of enginee incharge. Meet still be supplied by DFCCIL.  55		Description:- Laying of S&T cables of various cores/pairs/quads in trenches/GI Pipes/RCC ducts/ DWC
includes provision of labels on each cable of coloured plastic adhesive tapes or any other identifiable marker to give the cable number at each termination point G.P. The contractor will do megaging of a the cables (main & tail) before laying as well as after laying under the supervision of enginee incharge. Megagering test report of each cable will be signed jointly by authorized site representative of contractor and site engineer incharge. Note: The length of the cables laid will include the length of the cables which have been coiled for termination purposes. Half cut DWC pipes, prefabricated duct and DWC pipes shall be supplied by DFCCIL.    05		
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incharge. Meggering test report of each cable will be signed jointly by authorized site representative of contractor and site engineer incharge. Note: The length of the cables is did will include the length of the cables which have been coiled for termination purposes. Half cut DWC pipes, prefabricated duct and DWC pipes shall be supplied by DFCCIL.    Description: Cement concrete work for miscellaneous items in ratio 1:3:6. Item includes excavation ramming of CC by using vibrator, curing and plastering with cement and sand mixture (aggregate winot exceed beyond 3.8 cm). The aggregate cement and sand will be supplied by contractor.    Description: Providing brick masonry in ratio 1:6 cement and mortar including plastering with cement and sand mixture both sides of bricks with thickness 20 mm each end with contractor's own 8' Class bricks. It also includes excavation, curing, grouting, bolting etc. where ever required. 'EClass bricks, sand and cement (ISI mark) will be supplied by the Contractor.    OF   12:5.00   Numbers   15:217.5.0   190:2187.5.0   AT Par   190:187.5.0     Description: Supply, preparation, splicing and installation of straight joint for 24 fibers along with enclosures with heat shrinkable splice protection sleeve as per TEC Specn.G/OJC-02/01 March-99 or latest. Splice losses in no case should be more than 0.1 dB.   Description: Supply, preparation, splicing and installation of straight joint for 48 fibers along with enclosures with heat shrinkable splice protection sleeve as per TEC Specn.G/OJC-02/01 March-99 or latest. Splice losses in no case should be more than 0.1 dB.   OB   10:5.00   Numbers   17:367.56   2170:945.00   AT Par   2170:945.00     Description: Supply, preparation, splicing and installation of straight joint for 48 fibers along with enclosures with heat shrinkable splice protection sleeve as per TEC Specn.G/OJC-02/01 March-99 or latest. Splice losses in no case should be more than 0.1 dB.   OB   00:00   Numbers   00:00   00:00   00:00   00:00   00:00   00:00   00:00   00:00		marker to give the cable number at each termination point G.P. The contractor will do meggering of all
of contractor and site engineer incharge. Note: The length of the cables laid will include the length of the cables which have been coiled for termination purposes. Half cut DWC pipes, prefabricated duct and DWC pipes shall be supplied by DFCCIL.    15		
and DWC pipes shall be supplied by DFCCIL.  05		of contractor and site engineer incharge. Note: The length of the cables laid will include the length o
Description: Cement concrete work for miscellaneous items in ratio 1:3:6. Item includes excavation ramming of CC by using vibrator, curing and plastering with cement and sand mixture (aggregate win not exceed beyond 3.8 cm). The aggregate cement and sand will be supplied by contractor.  06		
ramming of CC by using vibrator, curing and plastering with cement and sand mixture (aggregate winot exceed beyond 3.8 cm). The aggregate cement and sand will be supplied by contractor.  06   42.00   cum   1715.24   72040.08   AT Par   72040.08    Description:- Providing brick masonry in ratio 1.6 cement and mortar including plastering with 1. cement and sand mixture both sides of bricks with thickness 20 mm each end with contractor's ow B' Class bricks. It also includes excavation, curing, grouting, bolting etc. where ever required. EC class bricks, sand and cement (ISI mark) will be supplied by the Contractor.  07   125.00   Numbers   15217.50   1902187.50   AT Par   1902187.50    Description:- Supply, preparation, splicing and installation of straight joint for 24 fibers along with enclosures with heat shrinkable splice protection sleeve as per TEC Specn.G/OJC-02/01 March-99 o latest. Splice losses in no case should be more than 0.1 dB.  08   125.00   Numbers   17367.56   2170945.00   AT Par   2170945.00    Description:- Supply, preparation, splicing and installation of straight joint for 48 fibers along with enclosures with heat shrinkable splice protection sleeve as per TEC Specn.G/OJC-02/01 March-99 o latest. Splice losses in no case should be more than 0.1 dB.  09   50.00   Kilometre   9108.75   455437.50   AT Par   455437.50    Description:- Blowing/drawing of OFC cables in the HDPE duct along with all the protective work a per approved standard and instructions of site Engineer.  10   50.00   Numbers   12900.90   645045.00   AT Par   529680.50    Description:- Supply, preparation, splicing and installation of straight joint for 12 fibers along with enclosures with heat shrinkable splice protection sleeve.  11   50.00   Numbers   12900.90   645045.00   AT Par   529680.50    Description:- Supply, preparation, splicing and installation of straight joint for 6 fibers along with enclosures with heat shrinkable splice protection sleeve.  12   50.00   Numbers   2503.80   125190.00   AT Par   125190.00    Desc		
ramming of CC by using vibrator, curing and plastering with cement and sand mixture (aggregate winot exceed beyond 3.8 cm). The aggregate cement and sand will be supplied by contractor.  06	5	Description:- Cement concrete work for miscellaneous items in ratio 1:3:6. Item includes excavation
Description:- Providing brick masonry in ratio 1:6 cement and mortar including plastering with 1: cement and sand mixture both sides of bricks with thickness 20 mm each end with contractor's ow 'B' Class bricks. It also includes excavation, curing, grouting, bolting etc. where ever required. 'E Class bricks, sand and cement (ISI mark) will be supplied by the Contractor.  07 125.00 Numbers 15217.50 1902187.50 AT Par 1902187.50   Description:- Supply, preparation, splicing and installation of straight joint for 24 fibers along with enclosures with heat shrinkable splice protection sleeve as per TEC Specn.G/OJC-02/01 March- 99 or latest. Splice losses in no case should be more than 0.1 dB.  08 125.00 Numbers 17367.56 2170945.00 AT Par 2170945.00   Description:- Supply, preparation, splicing and installation of straight joint for 48 fibers along with enclosures with heat shrinkable splice protection sleeve as per TEC Specn.G/OJC-02/01 March- 99 or latest. Splice losses in no case should be more than 0.1 dB.  09 50.00 Kilometre 9108.75 455437.50 AT Par 455437.50   Description:- Blowing/drawing of OFC cables in the HDPE duct along with all the protective work a per approved standard and instructions of site Engineer.  10 50.00 Numbers 12900.90 645045.00 AT Par 645045.00   Description:- Supply, preparation, splicing and installation of straight joint for 12 fibers along with enclosures with heat shrinkable splice protection sleeve.  11 50.00 Numbers 10593.61 529680.50 AT Par 529680.50   Description:- Supply, preparation, splicing and installation of straight joint for 6 fibers along with enclosures with heat shrinkable splice protection sleeve.  12 50.00 Numbers 2503.80 125190.00 AT Par 125190.00   Description:- Repairing of Single case foundation by excavation and casting it with contractor's cement, brick and other materials as per Drawing No. 6-AL-TYP-CW-8006 with latest amendment in any, and as per scope of work. Contractor has to completely break the entire foundation retaining the existing MS frame. The entire w	_	
Description:- Providing brick masonry in ratio 1:6 cement and mortar including plastering with 1: cement and sand mixture both sides of bricks with thickness 20 mm each end with contractor's own B'C Class bricks, it also includes excavation, curing, grouting, bothing etc. where ever required. 'E Class bricks, sand and cement (ISI mark) will be supplied by the Contractor.  7		
cement and sand mixture both sides of bricks with thickness 20 mm each end with contractor's own B' Class bricks. It also includes excavation, curing, grouting, bolting etc. where ever required. 'E Class bricks, sand and cement (ISI mark) will be supplied by the Contractor.  7 125.00 Numbers 15217.50 1902187.50 AT Par 1902187.50    8 125.00 Numbers 15217.50 1902187.50 AT Par 1902187.50    9 125.00 Numbers 17367.56 2170945.00 AT Par 2170945.00    10 12 10 Numbers 17367.56 12 170945.00 AT Par 2170945.00    10 12 170945.00 Numbers 17367.56 12 170945.00 AT Par 2170945.00    10 12 170945.00 Numbers 17367.56 12 170945.00 AT Par 2170945.00    10 12 170945.00 Numbers 17367.56 12 170945.00 AT Par 2170945.00    10 12 170945.00 Numbers 17367.56 12 170945.00 AT Par 2170945.00    10 12 170945.00 Numbers 19108.75 A55437.50 AT Par 3455437.50    10 12 18 18 18 18 18 18 18 18 18 18 18 18 18		55 12.55 26.55 7.25.25 7.25.25
Class bricks, sand and cement (ISI mark) will be supplied by the Contractor.  1	6	cement and sand mixture both sides of bricks with thickness 20 mm each end with contractor's owr
Description:- Supply, preparation, splicing and installation of straight joint for 24 fibers along with enclosures with heat shrinkable splice protection sleeve as per TEC Specn.G/OC-02/01 March- 99 olatest. Splice losses in no case should be more than 0.1 dB.  Description:- Supply, preparation, splicing and installation of straight joint for 48 fibers along with enclosures with heat shrinkable splice protection sleeve as per TEC Specn.G/OC-02/01 March- 99 olatest. Splice losses in no case should be more than 0.1 dB.  Description:- Supply, preparation, splicing and installation of straight joint for 48 fibers along with enclosures with heat shrinkable splice protection sleeve as per TEC Specn.G/OJC-02/01 March- 99 olatest. Splice losses in no case should be more than 0.1 dB.  Description:- Blowing/drawing of OFC cables in the HDPE duct along with all the protective work a per approved standard and instructions of site Engineer.  Description:- Supply, preparation, splicing and installation of straight joint for 12 fibers along with enclosures with heat shrinkable splice protection sleeve.  Description:- Supply, preparation, splicing and installation of straight joint for 12 fibers along with enclosures with heat shrinkable splice protection sleeve.  Description:- Supply, preparation, splicing and installation of straight joint for 6 fibers along with enclosures with heat shrinkable splice protection sleeve.  Description:- Supply, preparation, splicing and installation of straight joint for 6 fibers along with enclosures with heat shrinkable splice protection sleeve.  Description:- Supply, preparation, splicing and installation of straight joint for 6 fibers along with enclosures with heat shrinkable splice protection sleeve.  Description:- Repairing of Single case foundation by excavation and casting it with contractor's cement, brick and other materials as per Drawing No. 6-AL-TYP-CW-8006 with latest amendment in any, and as per scope of work. Contractor has to completely break the entire foundation retaining t		'B' Class bricks. It also includes excavation, curing, grouting, bolting etc. where ever required. 'B
Description:- Supply, preparation, splicing and installation of straight joint for 24 fibers along with enclosures with heat shrinkable splice protection sleeve as per TEC Specn.G/OJC-02/01 March- 99 of latest. Splice losses in no case should be more than 0.1 dB.		
enclosures with heat shrinkable splice protection sleeve as per TEC Specn.G/OJC-02/01 March- 99 o latest. Splice losses in no case should be more than 0.1 dB.  08	7	
Description:- Supply, preparation, splicing and installation of straight joint for 48 fibers along with enclosures with heat shrinkable splice protection sleeve as per TEC Specn.G/OJC-02/01 March- 99 of latest. Splice losses in no case should be more than 0.1 dB.  109	,	enclosures with heat shrinkable splice protection sleeve as per TEC Specn.G/OJC-02/01 March- 99 or
Description:- Supply, preparation, splicing and installation of straight joint for 48 fibers along with enclosures with heat shrinkable splice protection sleeve as per TEC Specn.G/OJC-02/01 March- 99 of latest. Splice losses in no case should be more than 0.1 dB.  10		
enclosures with heat shrinkable splice protection sleeve as per TEC Specn.G/OJC-02/01 March-99 o latest. Splice losses in no case should be more than 0.1 dB.  9	_	
Description:- Supply, preparation, splicing and installation of straight joint for 6 fibers along with enclosures with heat shrinkable splice protection sleeve.  10   So.00   Numbers   12900.90   645045.00   AT Par   645045.00    Description:- Supply, preparation, splicing and installation of straight joint for 12 fibers along with enclosures with heat shrinkable splice protection sleeve.  11   So.00   Numbers   10593.61   S29680.50   AT Par   S29680.50    Description:- Supply, preparation, splicing and installation of straight joint for 6 fibers along with enclosures with heat shrinkable splice protection sleeve.  12   So.00   Numbers   2503.80   125190.00   AT Par   125190.00    Description:- Repairing of Single case foundation by excavation and casting it with contractor's cement, brick and other materials as per Drawing No. 6-AL-TYP-CW-8006 with latest amendment if any, and as per scope of work. Contractor has to completely break the entire foundation retaining the existing MS frame. The entire work shall be executed by the contractor to the Satisfaction of Site Engineer.  13   So.00   Numbers   2503.80   125190.00   AT Par   125190.00    Description:- Repairing of half case foundation by excavation and casting it with contractor's cement, brisk and other materials as per Drawing No. 6-AL-TYP-CW-8005 with latest amendment if any, and as per scope of work. Contractor has to completely break the entire foundation retaining the existing MS frame. The entire work shall be executed by the contractor to the Satisfaction of Site Engineer.  14   10.00   Numbers   949.93   949.30   AT Par   9499.30    Description:- Replacement of old signal unit /signal route of main signal. This would include releasing of old unit from top of signal post erection and mounting of new signal unit over the post includes bringing new signal unit from station/IMD/IMSD to site and bring back old unit from site to station/IMD/IMSD.	8	enclosures with heat shrinkable splice protection sleeve as per TEC Specn.G/OJC-02/01 March- 99 or
Description:- Blowing/drawing of OFC cables in the HDPE duct along with all the protective work a per approved standard and instructions of site Engineer.  10   50.00   Numbers   12900.90   645045.00   AT Par   645045.00    Description:- Supply, preparation, splicing and installation of straight joint for 12 fibers along with enclosures with heat shrinkable splice protection sleeve.  11   50.00   Numbers   10593.61   529680.50   AT Par   529680.50    Description:- Supply, preparation, splicing and installation of straight joint for 6 fibers along with enclosures with heat shrinkable splice protection sleeve.  12   50.00   Numbers   2503.80   125190.00   AT Par   125190.00    Description:- Repairing of Single case foundation by excavation and casting it with contractor's cement, brick and other materials as per Drawing No. 6-AL-TYP-CW-8006 with latest amendment in any, and as per scope of work. Contractor has to completely break the entire foundation retaining the existing MS frame. The entire work shall be executed by the contractor to the Satisfaction of Site Engineer.  13   50.00   Numbers   2503.80   125190.00   AT Par   125190.00    Description:- Repairing of half case foundation by excavation and casting it with contractor's cement, brisk and other materials as per Drawing No. 6-AL-TYP-CW-8005 with latest amendment in any, and as per scope of work. Contractor has to completely break the entire foundation retaining the existing MS frame. The entire work shall be executed by the contractor to the Satisfaction of Site Engineer.  14   10.00   Numbers   949.93   949.30   AT Par   9499.30    Description:- Replacement of old signal unit /signal route of main signal. This would include releasing of old unit from top of signal post erection and mounting of new signal unit over the posincluding wiring of Main Signal LED/Signal post erection and mounting back old unit from site to station/IMD/IMSD.		
per approved standard and instructions of site Engineer.  10 50.00 Numbers 12900.90 645045.00 AT Par 645045.00  Description:- Supply, preparation, splicing and installation of straight joint for 12 fibers along with enclosures with heat shrinkable splice protection sleeve.  11 50.00 Numbers 10593.61 529680.50 AT Par 529680.50  Description:- Supply, preparation, splicing and installation of straight joint for 6 fibers along with enclosures with heat shrinkable splice protection sleeve.  12 50.00 Numbers 2503.80 125190.00 AT Par 125190.00  Description:- Repairing of Single case foundation by excavation and casting it with contractor's cement, brick and other materials as per Drawing No. 6-AL-TYP-CW-8006 with latest amendment in any, and as per scope of work. Contractor has to completely break the entire foundation retaining the existing MS frame. The entire work shall be executed by the contractor to the Satisfaction of Site Engineer.  13 50.00 Numbers 2503.80 125190.00 AT Par 125190.00  Description:- Repairing of half case foundation by excavation and casting it with contractor's cement, brisk and other materials as per Drawing No. 6-AL-TYP-CW-8005 with latest amendment in any, and as per scope of work. Contractor has to completely break the entire foundation retaining the existing MS frame. The entire work shall be executed by the contractor to the Satisfaction of Site Engineer.  14 10.00 Numbers 949.93 949.93 AT Par 9499.30  Description:- Replacement of old signal unit /signal route of main signal. This would include releasing of old unit from top of signal post erection and mounting of new signal unit over the post including wiring of Main Signal LED/Signal route of main signal as per Technical Specification. This also includes bringing new signal unit from station/IMD/IMSD to site and bring back old unit from site to station/IMD/IMSD.	9	
Description:- Supply, preparation, splicing and installation of straight joint for 12 fibers along with enclosures with heat shrinkable splice protection sleeve.  11 50.00 Numbers 10593.61 529680.50 AT Par 529680.50  Description:- Supply, preparation, splicing and installation of straight joint for 6 fibers along with enclosures with heat shrinkable splice protection sleeve.  12 50.00 Numbers 2503.80 125190.00 AT Par 125190.00  Description:- Repairing of Single case foundation by excavation and casting it with contractor cement, brick and other materials as per Drawing No. 6-AL-TYP-CW-8006 with latest amendment in any, and as per scope of work. Contractor has to completely break the entire foundation retaining the existing MS frame. The entire work shall be executed by the contractor to the Satisfaction of Site Engineer.  13 50.00 Numbers 2503.80 125190.00 AT Par 125190.00  Description:- Repairing of half case foundation by excavation and casting it with contractor cement, brisk and other materials as per Drawing No. 6-AL-TYP-CW-8005 with latest amendment in any, and as per scope of work. Contractor has to completely break the entire foundation retaining the existing MS frame. The entire work shall be executed by the contractor to the Satisfaction of Site Engineer.  14 10.00 Numbers 949.93 9499.30 AT Par 9499.30  Description:- Replacement of old signal unit /signal route of main signal. This would include releasing of old unit from top of signal post erection and mounting of new signal unit over the post including wiring of Main Signal LED/Signal route of main signal as per Technical Specification. This also includes bringing new signal unit from station/IMD/IMSD to site and bring back old unit from site to station/IMD/IMSD.		
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11   50.00   Numbers   10593.61   529680.50   AT Par   529680.50    Description:- Supply, preparation, splicing and installation of straight joint for 6 fibers along with enclosures with heat shrinkable splice protection sleeve.  12   50.00   Numbers   2503.80   125190.00   AT Par   125190.00    Description:- Repairing of Single case foundation by excavation and casting it with contractor cement, brick and other materials as per Drawing No. 6-AL-TYP-CW-8006 with latest amendment in any, and as per scope of work. Contractor has to completely break the entire foundation retaining the existing MS frame. The entire work shall be executed by the contractor to the Satisfaction of Site Engineer.  13   50.00   Numbers   2503.80   125190.00   AT Par   125190.00    Description:- Repairing of half case foundation by excavation and casting it with contractor completely break the entire foundation retaining the existing MS frame. The entire work shall be executed by the contractor to the Satisfaction of Site Engineer.  14   10.00   Numbers   949.93   9499.30   AT Par   9499.30    Description:- Replacement of old signal unit /signal route of main signal. This would include releasing of old unit from top of signal post erection and mounting of new signal unit over the post including wiring of Main Signal LED/Signal route of main signal as per Technical Specification. This also includes bringing new signal unit from station/IMD/IMSD to site and bring back old unit from site to station/IMD/IMSD.	10	<b>Description:-</b> Supply, preparation, splicing and installation of straight joint for 12 fibers along with
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Engineer.  13	12	any, and as per scope of work. Contractor has to completely break the entire foundation retaining the
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Engineer.  14		
Description:- Replacement of old signal unit /signal route of main signal. This would include releasing of old unit from top of signal post erection and mounting of new signal unit over the post including wiring of Main Signal LED/Signal route of main signal as per Technical Specification. This also includes bringing new signal unit from station/IMD/IMSD to site and bring back old unit from site to station/IMD/IMSD.		
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		includes bringing new signal unit from station/IMD/IMSD to site and bring back old unit from site to
15   33.00  Numbers   3338.40  110167.20  AT Par   110167.20		
		15   33.00  Numbers  3338.40  110167.20  AT Par  110167.20

Page 2 of 6 Run Date/Time: 08/08/2025 16:39:27

**Tender No:** DFC-All-Madar-NewPalanpur **Closing Date/Time:** 01/09/2025 15:00

15	<b>Description:-</b> Refixing of electrical point machines and ground connection. This would include removal of old /existing point machine and fixing of new/overhauled motor. This would also include bringing the new machines from station / IMD/IMSD to site and taking the old / released machines from site to station/ IMD/IMSD.
	16 2033.00 Numbers 78.29 159163.57 AT Par 159163.57
16	<b>Description:-</b> Lettering/Numbering of Signals, Point Machine, Track Lead junction Boxes, Block joints, Apparatus Cases etc. (each item to be taken as One Unit). This work will be carried out as per the standard practice or as per site incharge instructions.
	Please see Item Breakup for details. 1033759.80 AT Par 1033759.80
	<b>Description:-</b> Painting of two coats of synthetic enamel paint over one coat of primer on the below
17	mentioned items at Sr. no. 17.1, 17.2, 17.3 & 17.4 after scraping & cleaning surface wherever necessary with contractor's own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in-charge. The paint and primer should be from Asian Paints/Nerolac/Dulux/Berger. The primer/enamel paints (Aluminium synthetic, black enamel, brilliant white and yellow) will be as per (IS 5660 of 1970)/ (IS 2932 of 1974).
	18 100.00 Numbers 2013.78 201378.00 AT Par 201378.00
18	<b>Description:-</b> Jointing of 4/6 quad/Signaling cable with Heat Shrinkable straight through Jointing Kit. All the material required for the work are to be arranged by contractor himself at his own cost except Thermo Shrinkable Joint Kit/Rapid Joint kit. After jointing the cable through test such as insulation test, continuity cable losses etc. to be carried out jointly with DFCCIL Engineer. If any defect or any damage is observed during jointing, the contractor has to redo the joint free of cost.
	19 300.00 Numbers 1438.02 431406.00 AT Par 431406.00
19	<b>Description:-</b> Strengthening of foundation of signals, Full/Half location boxes, by carrying out earth work around the foundation, ramming of refilled earth, carrying out masonry work from bottom of earth work using country stones & cement masonry to prevent the earth from slipping down the bank. This also includes the supply of required masonry materials.
	20 22.00 Numbers 2836.18 62395.96 AT Par 62395.96
20	<b>Description:-</b> Shifting and installation of Apparatus Case Single (Full) Drawing No6/BL/TYP/CW/8024/0 with latest amendment, if any.
	21   50.00 Numbers 1870.80 93540.00 AT Par 93540.00
21	<b>Description:-</b> Shifting and installation of Apparatus Case (Half) Drawing No 6/BL/TYP/CW/8023/0 with latest amendment, if any.
	22 238.00 Numbers 1892.69 450460.22 AT Par 450460.22
22	Description:- Demounting and Replacement of Wheel Sensor (Track Device) of Multi-Section Digital Axle Counter (MSDAC) including disconnection and reconnection of tail cable at TLJB. This includes complete removal of Wheel Sensor (mounted on the rail) along with the tail cable under the rail. The Contractor shall ensure the proper alignment of the Wheel Sensor at the time of mounting the new Wheel Sensor. Wheel sensor shall be supplied by DFCCIL. The Contractor shall bring the new wheel sensor from station / IMD/ IMSD to site and shall take the old / released wheel sensor from site to station/ IMD/ IMSD. The work shall be completed as per OEM's guidelines and Technical Requirement & Specification under the supervision of DFC site in charge.  23 46.00 Numbers 3849.74 177088.04 AT Par 177088.04
23	<b>Description:-</b> Installation, erection and wiring of CLS unit, Post, Ladder & Base, LED unit including laying out of Tail Cable from Location box. Wiring of CLS unit shall be carried out as per Technical Specification. This also includes Protection of unit from Rainwater. The Material shall be supplied by DFCCIL.
	24 15.00 Numbers 925.47 13882.05 AT Par 13882.05
24	<b>Description:-</b> Installation, erection and wiring of Junction Type/'V' Type route Indicator (LED Type)/seven Segment Route display unit. Wiring shall be carried out as per Technical Specification. This also includes Protection of unit from Rain Water. The Material shall be supplied by DFCCIL.
	25 13.00 Numbers 883.58 11486.54 AT Par 11486.54
25	<b>Description:-</b> Installation, erection of Shunt Signal Units with base & post and laying out of tail cable from location box and Wiring of Shunt Signal LED unit as per Technical Specification. This also includes Protection of unit from Rain Water. The Material shall be supplied by DFCCIL.
26	26 600.00 cum 257.61 154566.00 AT Par 154566.00
	<b>Description:-</b> Cross Trench for identification of the route of existing signaling and telecom cables.
	27         20.00         Numbers         756.44         15128.80         AT Par         15128.80
27	<b>Description:-</b> Dismantling and releasing of location boxes/Apparatus Cases/jn. Boxes which includes releasing of terminal boards, relays, terminals, batteries track feed chargers and other associated fitting installed in the locations
28	28 20.00 Numbers 9651.52 193030.40 AT Par 193030.40
20	Description:- Main Signal foundation.
	29 20.00 Numbers 3232.75 64655.00 AT Par 64655.00
29	

Page 3 of 6 Run Date/Time: 08/08/2025 16:39:27

**Tender No:** DFC-All-Madar-NewPalanpur **Closing Date/Time:** 01/09/2025 15:00

	Description:- Shunt Signal Foundation
20	30 20.00 Numbers 6611.29 132225.80 AT Par 132225.80
30	Description:- Location Box foundation (Half Case)
	31 20.00 Numbers 8660.06 173201.20 AT Par 173201.20
31	Description:- Location Box foundation (Full Case)
	32 10.00 Station 238837.95 2388379.50 AT Par 2388379.50
	Description:- Supply, Installation, testing and commissioning of Ring Earth for El system which
	includes supply of all components of earthing & bonding system like earth electrode, earth
	enhancement material, earth pit, equi- potential earth busbar, connecting cables and tape/strips and
	other associated accessories in accordance with RDSO Spec.No.RDSO/SPN /197/2008 or lates
	consisting minimum 8 Nos. of earth pits connected in a ring to achieve less than 1 Ohms earth resistance for connecting El equipments, relay racks, panel, power equipments as per Signa
	Engineering Practice. Diagram of ring earth should be supplied to Railway for Approval before
	execution. All related material as recommended by RDSO in Specn. No.RDSO/SPN /197/2008 or latest
	will be supplied by the contractor. basic material for one earth pit is given below: (a) Copper bonded
	steel electrode of 3.0 m long, 17.2 mm dia with copper bonding thickness of minimum macrons and
	UL listed and marked = 1 no. (b) Earth enhancement material supplied in sealed bags of minimum 10 kg = 3 nos. (c) Copper strip of $150x25x6$ mm, to terminate earth rod = 1 no. (d) Copper strip of
	300x25x6 mm (MEEB) = 1 no. (e) Copper strip of $150x25x6$ mm (SEEB) = 1 no. (f) Supply of 35 sq.
	mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting main earth
	electrode to MEEB in the equipment room in duplicate.(minimum 10 meter) (g) Supply of 16 sq. mm
	multi strand single core PVC insulated copper cable as per IS: 694 for connecting MEEB to SEEB and SPD to MEEB (minimum 10 meter ) (h) Supply of 10 sq. mm multi strand single core PVC insulated
32	copper cable as per IS: 694 for connecting various equipments to SEEB (i) Supply of copper lug sleeve
	for 3/16 cable Installation of one earth pit includes ( i ) Digging the earth to the required depth. (ii)
	Insertion of electrode. (iii) Filling of earth enhancing compound (Approx.30 Kg) (iv) Provision of
	exothermic weld connections to copper tape of 25 mm x 6 mm x 150 mm to the earth electrodes. All
	material tools and features required for weld will be arranged by contractor. (v) This also includes CC cover 1.5 ft x 1.5 ft. 1 ft wall thickness 2 inch with cover 3 inch thickness. Cables 35 Sq mm/ 16 Sq
	mm/10 sq mm for connecting earth to busbar, busbar to busbar and busbars to various equipments.
	Earth electrode of 17.20 mm dia and 3.00 meter long high tensile low carbon steel circular rods
	molecularly bonded with copper and outer surface (minimum copper bonding thickness of 250
	microns to made requirement of under writer's laboratories (UL) 467-2007 or latest. Copper strips of
	150 mm x 25 mm x 6 mm to be welded with each earth electrode, copper strips of 300 mm x 25 mm x 6 mm for main equip- potential busbar, copper strips of 150 mm x 25 mm x 6 mm sub equip-
	potential busbar in relay room, power room and panel room. GI strip 25 mm x 2 mm for ring formation
	of earth pits Earth enhancement material in bags for each Earth Electrode. Inspection chamber of site
	300 mm x 300 mm x 300 mm (Inside dimension) of approximate 50 mm thick with pulling hooks to
	cover the earth pits. Note:Earthing arrangement for El must be as per RDSO guidelines issued by RDSO vide RDSO TAN no. STS/E//TAN/3006 dated 02.11.2012 or latest. Inspection: Consignee
	Inspection Charges: None Payment Terms: 100% after Supply.
	33 200.00 Numbers 2823.69 564738.00 AT Par 564738.00
	<b>Description:-</b> Supply and Installation of earth electrode assembly as per latest RDSO standard /
	DFCCIL site in charge instruction. This also includes fixing of earth electrodes, earthing of S&T
22	apparatus cases along with all equipment and cable armours along with soldering at all location as
33	decided by the site engineer of the DFC, signal post etc. connected through cable/GI wire 8SWG
	supported on MS flat size 5mmX40mm to earth electrode as per DFCCIL drawing and practice on the division suitable brick masonry enclosure to be provided around the earth. The earth value which
	should be less than 10 ohms including the lead wire, should be measured and painted on it.
	(Inspection by Consignee).
	34 5000.00 Numbers 10.93 54650.00 AT Par 54650.00
34	Description:- Supply of Round head type, glass fuses per Spec No IRS: S -78/92 with latest
	amendments,0.6A/2A/4A/6A/8A/10A rating capacity
	35 1.00 Per Gate 544952.86 544952.86 AT Par 544952.86
35	<b>Description:-</b> Installation, testing and commissioning of electrically operated lifting barrier, complete
	with Casting of cement concrete foundation for pedestal and boom rest post, cabling, power supply
	connection & wiring with complete outdoor work as per approved drawing, wiring etc.
36	36   5.00   Set   2146.06   10730.30   AT Par   10730.30
36	<b>Description:-</b> Supply of Yellow Retro reflective sheet for LC Boom prismatic grade reflective sheets of
	size 305 x 290 mm one set consist 18 pieces
37	37   462.00   Numbers   195.88   90496.56   AT Par   90496.56
	Description:- Plastic Signal cover for 4-Aspect Signal Unit
20	38 50.00 Numbers 84.96 4248.00 AT Par 4248.00
38	<b>Description:-</b> Plastic cover for Route body opened from side and made of plastic sheet of 100 micron
	and size 685X76 mm round shape.

Page 4 of 6 Run Date/Time: 08/08/2025 16:39:27

**Tender No:** DFC-All-Madar-NewPalanpur **Closing Date/Time:** 01/09/2025 15:00

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit	
Schedule () B-Provision of Manpower						26375057.28	Above/ Below/Par		
1	01	6864.00	Man-Days	1147.02	7873145.28	AT Par	7873145.28		
1	<b>Description:-</b> Provision of Manpower in Skilled Category (Minimum Wages Based as per CLC)								
2	02	13728.00	Man-Days	1347.75	18501912.00	AT Par	18501912.00		
_	<b>Description:-</b> Provision of Manpower in Highly Skilled Category (Minimum Wages Based as per CLC)								

## 3. ITEM BREAKUP

Schedule	Schedule Schedule A-Need based S&T work items							
Item- 17	Painting of two coats of synthetic enamel paint over one coat of primer on the below mentioned items at Sr. no. 17.1, 17.2, 17.3 & 17.4 after scraping & cleaning surface wherever necessary with contractor's own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in-charge. The paint and primer should be from Asian Paints/Nerolac/Dulux/Berger. The primer/enamel paints (Aluminium synthetic, black enamel, brilliant white and yellow) will be as per (IS 5660 of 1970)/ (IS 2932 of 1974).							
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount		
1	1701	Apparatus Case Full Size/Half Size (Outside & Inside)	Numbers	330.00	551.51	181998.30		
2	1702	Main Signal Post with Signal units, Surface base and complete fittings as per Standard Practice	Numbers	693.00	828.72	574302.96		
3	1703	Shunt Signal Post with Signal Unit, surface base as per Standard Practice	Numbers	393.00	380.38	149489.34		
4	1704	Point Machine with ground connections complete (Point Machine with Black enamel only outside and ground connections with Red oxide).		492.00	260.10	127969.20		
					Total	1033759.80		

### 4. ELIGIBILITY CONDITIONS

## **Special Financial Criteria**

S.No.	Description	Confirmation Required		Documents Uploading
1	The tenderer must have minimum average annual contractual turnover of V/N or 'V' whichever is less; where V= Advertised value of the tender in crores of Rupees. N= Number of years prescribed for completion of work for which bids have been invited. The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover. The tenderers shall submit Certificates to this effect which may be an attested Certificate from the concerned department/client or Audited Balance sheet duly certified by the Chartered Accountant/Certificate from Chartered Accountant duly supported by Audited Balance Sheet.	No	No	Allowed (Mandatory)

## **Special Technical Criteria**

S.No.	Description	Confirmation Required		Documents Uploading
1	The tenderer(s) should satisfy the following minimum eligibility criteria as under: The tenderer must have successfully completed any of the following during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: Three similar works each costing not less than the amount equal to 30% of advertised value of the tender, or Two similar works each costing not less than the amount equal to 40% of advertised value of the tender, or One similar works each costing not less than the amount equal to 60% of advertised value of the tender. Similar Nature of Work for this Tender: "Any signaling work related to Repairing/ Refixing/ Replacement/ Construction/ Maintenance of Signaling Assets in Indian Railways or in Railway PSUs like RVNL, IRCON, DFCCIL, KRCL, RITES etc. or in Metro Railways."	No	No	Allowed (Mandatory)

Page 5 of 6 Run Date/Time: 08/08/2025 16:39:27

**Tender No:** DFC-AII-Madar-NewPalanpur **Closing Date/Time:** 01/09/2025 15:00

### 5. COMPLIANCE

#### **Check Lst**

S.No.		Confirmation Required		Documents Uploading
1	As per Tender Document	No	No	Not Allowed

### **Commercial-Compliance**

S.No.	•	Confirmation Required		Documents Uploading
1	Please enter the percentage of local content in the material being offered. Please enter 0 for fully imported items, and 100 for fully indigenous items. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in the tender conditions.	No	Voc	Allowed (Optional)

#### **General Instructions**

ĺ	S.No. Description		Confirmation	Remarks	Documents
			Required	Allowed	Uploading
ĺ	1	As per Tender Document	No	No	Not Allowed

#### **Undertakings**

S.No.		Confirmation Required		Documents Uploading
1	As per Tender Document	No	No	Not Allowed

#### 6. Documents attached with tender

S.No.	Document Name	Document Description
	DFC-All-Madar- NewPalanpur_5.pdf	Tender Document

This tender complies with Public Procurement Policy (Make in India) Order 2017, dated 15/06/2017, issued by Department of Industrial Promotion and Policy, Ministry of Commerce, circulated vide Railway Board letter no. 2015/RS(G)/779/5 dated 03/08/2017 and 27/12/2017 and amendments/ revisions thereof.

As a Tender Inviting Authority, the undersigned has ensured that the issue of this tender does not violate provisions of GFR regarding procurement through GeM.

Signed By: KANTI KUMAR THAKUR

**Designation:** APM/S T

Page 6 of 6 Run Date/Time: 08/08/2025 16:39:27