

**WDFC FIELD UNIT-VALSAD-CIVIL/WDFC
TENDER DOCUMENT**

Tender No: Mum_N_EN_TrackMaintenance

Closing Date/Time: 03/07/2023 15:00

CGM/N/MUMBAI acting for and on behalf of The President of India invites E-Tenders against Tender No Mum_N_EN_TrackMaintenance Closing Date/Time 03/07/2023 15:00 Hrs. Bidders will be able to submit their original/revise 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 | Track Maintenance including miscellaneous P.Way & other ancillary works in the jurisdiction of CGM/Mumbai/North i.e. from Vaitarana to Bhestan in connection with Western Dedicated Freight Corridor. (For 2 Year). | | |
| Bidding type | Normal Tender | | |
| Tender Type | Open | Bidding System | Single Packet System |
| Tender Closing Date Time | 03/07/2023 15:00 | Date Time Of Uploading Tender | 02/06/2023 13:19 |
| Pre-Bid Conference Required | No | Pre-Bid Conference Date Time | Not Applicable |
| Advertised Value | 189378617.10 | Tendering Section | TENDER |
| Bidding Style | Single Rate for Each Schedule | Bidding Unit | |
| Earnest Money (Rs.) | 3000000.00 | Validity of Offer (Days) | 120 |
| Tender Doc. Cost (Rs.) | 11800.00 | Period of Completion | 24 Months |
| Contract Type | Works | Contract Category | Expenditure |
| Bidding Start Date | 19/06/2023 | Are Joint Venture (JV) firms allowed to bid | Yes |
| Ranking Order For Bids | Lowest to Highest | Expenditure Type | Capital (Works) |

2. SCHEDULE

| S.No. | Item Code | Item Qty | Qty Unit | Unit Rate | Basic Value | Escl.(%) | Amount | Bidding Unit |
|--|--|----------|----------|-----------|-------------|----------|--------------|---------------------|
| Schedule A- schedule a schedule A | | | | | | | 102827236.23 | Above/ Below/Par |
| 1 | 041080 | 60.00 | MT | 87841.30 | 5270478.00 | 12.00 | 5902935.36 | |
| | Description:- Supplying,Fabricating and fixing access ladders,inspection platforms,Trolley refugesetc.,on bridges with structural steel conforming to IS:2062 including welding/bolting,priming painting with one coat of ready mixed paint of Zinc Chromate(IS:104)with DFT of 25-30 microns followed by one coat of Zinc Chrome Red Oxide(IS:2074)with DFT of 25 microns with all material ,labour,T&P as a complete job.Note: Painting shall be paid separately under relevant item. | | | | | | | |
| 2 | 083030 | 20000.00 | TRM | 22.36 | 447200.00 | 12.00 | 500864.00 | |
| | Description:- Boxing and profiling of ballast as per procedure prescribed in latest edition of IRPMM including cess dressing on both sides of track.The work will include removing excess ballast from track and putting the same in crib and shoulder by leading to a maximum of 50 m including crossing of track,deweeding on ballast section etc and as directed by Engineer-In charge | | | | | | | |
| 3 | 061020 | 300.00 | RM | 30.32 | 9096.00 | 12.00 | 10187.52 | |
| | Description:- Dismantling and removing rail of all section & length from track,laid on any type & density of sleeper by removing fish plates,fastenings & fishbolts and other materials including stacking all released materials with in an average distance of 500 metres as directed by Engineer in-charge. Note:1.Cutting of rails shall be paid separately. 2.Work to be done under traffic block./For Casual/Scattered Rail Renewal work | | | | | | | |
| 4 | 061030 | 300.00 | RM | 32.09 | 9627.00 | 12.00 | 10782.24 | |
| | Description:- Insertion of rails of all types & length in track,laid on any type & density of sleeper to the specified gauge under traffic block.Rates include fastening of rail with sleepers with standard set of fastenings and fixing of fish plates andbolts or,if required,providing gap for welding and stacking of released material without infringement within 250m as directed by Engineer-in-Charge.Note: Rail drilling and cutting to be paid separately./For Casual/Scattered Rail Renewal work | | | | | | | |
| 5 | Please see Item Breakup for details. | | | | 191970.00 | 12.00 | 215006.40 | |
| | Description:- Replacement of any type of sleepers in track with PSC sleepers lying on cess or at Bridge Approaches for casual renewal at isolated locations with all fittings complete to specified gauge & cross level with contractor's tools including packing and dressing of ballast,as directed by Engineer in-charge.Released materials shall be neatly stacked and handed over at specified location with in an average lead of 250m or near either side of Bridge approaches as directed. | | | | | | | |

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| 6 | Please see Item Breakup for details. | | | 48041.40 | 12.00 | 53806.37 | |
| | Description:- Cutting/cropping of rail of 60Kg-90UTS,manually and perfectly vertical with contractor's labour, hacksaw blade and tools & plants - Note:1.Manual cutting should be used only in emergencies with prior permission of sectional ADEN where machine cutting cannot be arranged in time. 2.Cutting of Rails with blade and forcing to part by using other means to break the rails is prohibited.3.Rails should be cut right through hacksaw blades only. | | | | | | |
| 7 | 064040 | 200.00 | Each | 267.78 | 53556.00 | 12.00 | 59982.72 |
| | Description:- Drilling of hole of different diameter and chamfering, in rail of any sectionand any UTS manually only in emergencies withcontractor's labours, tools & plants, consumables etc./Hole of dia. 26.5mm and above | | | | | | |
| 8 | 064050 | 200.00 | Each | 110.05 | 22010.00 | 12.00 | 24651.20 |
| | Description:- Gas cutting of rail of various sections with contractor's tools & plants,as directed by engineer in-charge :/Rail section of 52Kg and above | | | | | | |
| 9 | 063120 | 50000.00 | Each | 26.63 | 1331500.00 | 12.00 | 1491280.00 |
| | Description:- Lubrication of Plate/Rail screws of Points and crossings, SEJs,Bridges,Curvesetc., with greases graphite, including removal of screws carefully without damaging sleepers,cleaning with wire brush etc.,both screws and dowel hole,applying grease graphite,refixing the screw and sealing the top and sides of screw with grease graphite to prevent ingress of moisture and corrosion with contractors labour,tools, consumables under traffic condition all lead and lift complete./By using Railway's/DFCCIL'S Grease graphite | | | | | | |
| 10 | 092010 | 60.00 | Each | 4079.73 | 244783.80 | 12.00 | 274157.86 |
| | Description:- 25mm gap'in-situ' welding during traffic block and finishing of weld to meet the prescribed tolerances and passall stipulated tests with all required labour,materials,consumables,tools,equipments etc.to complete the work in all respectas per IR's"Manual for Fusion Welding of Rails by Alumino-Thermic Process" with latest correction slips,including marking of welded joint, painting weld collar with anti corrosive paint, restoration of track near weld joint to original position and fixing of joggled fish plate at new weld,to be removed after passing of weld in USFD test as directed by Engineer in charge.Note: 1.Welding shall be carried out only by trained welder having valid competency certificate using RDSO approved AluminoThermit Welding Portions,3 piece prefabricated mould(ZIRCONWASHED)manually pressed, Single shot crucible fitted with autotapping thimble and Compressed Air Petrol/LPG preheating technique as per RDSOSpecification No IRST/19-2020 with latest amendment. 2.Hydraulic Weld trimmer shall be used for chipping and profile Grinder for finishing .3.Only required nos.of Joggled fish plates shall be supplied by Railway/DFCCIL a nearest P.Way Stores and the same shall be returned atnearest P.Way Store or at othe rlocation as per direction of Engineer-in-Charge after release from track.All other items required shall besupplied by the Contractor./For 60 Kg - 90 UTS Rail | | | | | | |
| 11 | Please see Item Breakup for details. | | | 1108503.60 | 12.00 | 1241524.03 | |
| | Description:- Providing Caution Watchman at a location where caution order is imposed and ensuring to be on continuous vigil and exhibit necessary hand signals to the trains for their passage over caution spot. Note:1)Prescribed protection equipment shall be supplied by Railways/DFCCIL and the same shall be returned after work is over. 2)If Contractor fails to post watchman at any time during one day,penalty at double the accepted rates will be levied and 3)The watchman nominated by the contractor will be screened for suitability as per Railway norms. | | | | | | |
| 12 | 135010 | 1250.00 | TRM | 46.13 | 57662.50 | 12.00 | 64582.00 |
| | Description:- De-stressing of LWR/CWR track of any density under traffic line block with contractor's labours ,tools, equipments and consumables inclusive of all lead & lift.Activities include cutting of LWR/CWR into convenient panels of specified length, removal of ERCs, liners, greasing of ERC sand liner contact area,lifting rails and keeping the monrollers provided at every 15sleepers,working out elongation of rail ends depending on prevailing site conditions, pulling rails with the help of Hydraulic Tensor to achieve the desired elongation ,cuttingrails,as required,removing rollers and placing rail in position, re-fixing ERCs & liners and adjustment of gap at SEJs :Note:(1) Welding of rail joints will be paid separately.(2) Rail cutting and Hole drilling shall be paid separately.(3) Opening and closing of LC if required will be paid separately. (4)AsperprocedureprescribedinlatesteditionofIRPWM&CE'sCirculars for destressing of LWR/CWR, if any./With Contractor's Hydraulic Rail tensor | | | | | | |
| 13 | 136010 | 300.00 | Set | 133.94 | 40182.00 | 12.00 | 45003.84 |
| | Description:- Fixing Joggled Fish Plates with bolt/clamp(supplied by Railway/DFCCIL from nearest SSE Store)in running track conditions at welds on rail,as directed by engineer in-charge(drilling of holes in rail,if required,shall be paid separately)./With Clamps | | | | | | |
| 14 | 063090 | 2500000.00 | ERC | 5.41 | 13525000.00 | 12.00 | 15148000.00 |
| | Description:- Lubrication of ERCs and its liner contact area by removal of ERCs and Metal/GFN liners in rail panel,cleaning of rust/scale of ERC, Metal/GFN liners & SGCI insert by using wire brush, scrapper/sand emery paper etc supply and application of graphite grease,as prescribed by Railway/DFCCIL for under side of liners & corresponding area of rail foot & SGCI insert withERC sand re-fixing the same as per procedure prescribed in latest edition of IRPWM/DFC manual with contractors grease and all other tools & plants complete and as directed. Note:Each ERC in this item shall constitute 1ERC and its Liner Contact area. | | | | | | |
| | 063110 | 30000.00 | RM | 5.22 | 156600.00 | 12.00 | 175392.00 |

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|----|--|-----------|------|--------|-------------|-------|-------------|
| 15 | Description:- Lubrication of gauge face of rail on curves, crossovers, points & crossings,turn-in curves and at locations as required withcontractor's grease graphite grade "O" IS 408 and as directed. | | | | | | |
| | 136090 | 543500.00 | RM | 27.48 | 14935380.00 | 12.00 | 16727625.60 |
| 16 | Description:- Cleaning of side drains along the track including disposing of muck beyond Railway boundary as per instructions of Engineerin-charge to keep drains clean and clear in cuttings etc. | | | | | | |
| | 136100 | 400000.00 | TRM | 12.65 | 5060000.00 | 12.00 | 5667200.00 |
| 17 | Description:- Removing weeds & bushes in ballast section and cess up to 3.95 m from centre line of track in mid section & station yard,as specified byEngineer in-charge including disposal of branches,bushes outside cess/yard. | | | | | | |
| | 136110 | 30.00 | Each | 145.67 | 4370.10 | 12.00 | 4894.51 |
| 18 | Description:- Trimming of tree branches coming within 6m of centre line of track & those obstructing views of Curves /LCs/ Signal/ Indicator at locations insection & station yard,as specified by Engineerin-charge including disposal of branches, bushes outside cess/yard. Note:Girth of more than 20cm will only be considered as tree branch. | | | | | | |
| | 136120 | 800.00 | RM | 108.52 | 86816.00 | 12.00 | 97233.92 |
| 19 | Description:- Making kutcha trapezoidal side drain of bottom width as 300 mm and depth of 450mm in cutting section by excavation in all types of soil including utilising excavated muck for dressing of cess,slopes etc.inRailway/DFCCIL land. | | | | | | |
| | 136130 | 16000.00 | Each | 731.85 | 11709600.00 | 12.00 | 13114752.00 |
| 20 | Description:- Providing Assistant to Patrol man for patrolling during cold/ hot weather on track for protecting track as per IRPWM. Note:1.The person deployed for patrolling must have the following items:• Valid certificate of competency issued by Railways.•FitforA-3medicalcategory-certificate issued by registered medical practitioner 2.Necessary equipments prescribed shall be supplied by Railways/DFCCIL for each patrol man and same to be handed ove rback to Railways/DFCCIL in good condition. 3.Thefollowing equipment to be arranged by contractor for each patrol man :H.S. Flags Green-1No(Standardsize), H.S Flags Red-2Nos.(Standardsize),Torch light 3cell-1no., Stafforflags-1no.,Whistle Thunder-1no, Protective clothing to withstand climate,Gumboots,Haver sack./For duration of 8 hrs | | | | | | |
| | 136140 | 6000.00 | Each | 909.80 | 5458800.00 | 12.00 | 6113856.00 |
| 21 | Description:- Providing Assistant to Patrolman for monsoon/security patrolling whenever required for protection of track as per IRPWM (foraduration of 12 hours).Note:1.The person deployed for patrolling must have the following items:• Valid certificate of competency issued by Railways.•Fit forA-3medicalcategory-certificate issued by registered medical practitioner.2.The equipment supplied by Railways shall be handed over back to Railways in good condition.3.The following equipment to be arranged by contractor for each patrol man:• H.S.flags (standard size): Green - 1 no. & Red - 2 Nos.• Torch (3 cell) - 1no.; Staff for flags - 1no.; Whistle thunder - 1no. •Protective cloth to withstand the climate; Gum boots; Haver sack/For Night shift | | | | | | |
| | Please see Item Breakup for details. | | | | 683986.40 | 12.00 | 766064.77 |
| 22 | Description:- Painting 2 coats to various P.Way Reference Post, Structures etc. with enamel paint of approved make with 2coats of different colours & letters, as directed by Engineer in-charge. | | | | | | |
| | Please see Item Breakup for details. | | | | 2864083.10 | 12.00 | 3207773.07 |
| 23 | Description:- Painting 2 coats to Bridge Reference/Boards, Structures etc.along track with enamel paint of approved make with different colours & letters, as directed by Engineer in-charge. | | | | | | |
| | 155000 | 200000.00 | TRM | 16.20 | 3240000.00 | 12.00 | 3628800.00 |
| 24 | Description:- CSM, Duomatic and 3X Sleeper Tamping Machines/Carrying out pre-tamping, during tamping and post-tamping work for tamping track with all types of rails,sleepers & sleeper density by various Track Tamping machines,like CSM, DUO/3X Machines which include :(1)Re-adjustment of ballast,heaping-up of ballast, filling-up of cavities in tamping zone by picking ballast from stacks/shoulders/crib of adjoining track up to lead of 50 m to ensure effective packing;(2) Clearing of ballast on sleepers to make them visible to operator,(3) Clearing of ballast over rail foot to facilitate holding of rail by rollers of TTRM;(4)Digging,screeningandreplenishmentofballastatmudpumping/rounded ballast in sleeper crib location;(5) Tightening of loose fittings immediately before & after tamping;(6) Replacement of broken / missing fittings supplied by Railway;(7) Correcting displaced sleepers to position along with squaring;(8) Re-setting of worked-out / fallen fittings;(9) Removing and re-fixing joggled fish plates & wooden blocks, wherever necessary;(10) Manual consolidation of ballast in crib / shoulders;(11) Removing and refixing of traction bonds during the block in electrified sections(12) Dressing of ballastNote:1. Tamping blocks are not identical & it may be given at any time either during day or night.2. Stages of payment a) 30% of the rate will be paid on completion of pre tamping attention, b) Balance 70% of the rate will be paid on completion of post tamping.3. Recovery at the rate of twice the above applicable rate will be effected in case contractor fails to carry out pre/during/post operation.4.Payment shall be made only once in irrespective of numbers of TTRM packing round and after restoration of normal speed and restoration of complete ballast profile./For day time block working | | | | | | |
| | Please see Item Breakup for details. | | | | 1564285.60 | 12.00 | 1751999.87 |

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|----|---|--|--|--|--|--|--|
| 25 | <p>Description:- Unimat Machine Related Works/Carrying out pre-tamping, during tamping and post-tamping works for tamping of Turnouts of all types Under Traffic Block Conditions which include: (1)Re-adjustment of ballast,heaping-up of ballast,filling-up o fcavities in tamping zone by picking ballast from stacks/shoulders/crib of adjoining track up to lead of 50m to ensure effective packing; (2)Clearing of ballast on sleepers to make them visible to operator;(3) Clearing of ballast over rail foot to facilitate holding of rail by rollers ofUNIMAT;(4)Digging, screening and replenishment of ballastat mud pumping/rounded ballast in sleeper crib location;(5)Tightening of loose fittings including checkrails immediately before & after tamping; (6)Replacement of broken/missing fittings supplied by Railway/DFCCIL;(7)Correcting displaced sleepers to position along with quaring;(8)Re-setting worked-out/fallen fittings; (9)Removing and re-fixing joggled fishplates & woodenblocks, OHEbonds & other obstructions,wherever necessary;(10)Removing and re-fixing stretcherbar,as directed;(11)Adjustment in opening and housing of switch for testing operation of points(12)Manual consolidation of ballast in cribs and shoulders;(13)Stages of payment a)30% of th rate will be paid on completion of pretamping attention,b)Balance70% of the rate will be paid on completion of posttamping; (14)Recovery at the rate of twice the applicable rate will be effected in case contractor fails to carry out any of the pre/during/post operation.</p> | | | | | | |
| 26 | <p>194050 1000.00 TRM 195.54 195540.00 12.00 219004.80</p> <p>Description:- Renewal of existing guard rails of all rail sections on bridge portion overwooden/PSC/steelchannel sleepers excluding flared ends duly leading new guard rails including cutting of rails ,drilling holes to the guard rails as required and as per drawings, refixing with all fastenings,and leading back the released rail,stacking at nominated place clear of infringements with all leads & lifts complete and as directed</p> | | | | | | |
| 27 | <p>Please see Item Breakup for details.</p> <p>12805.20 12.00 14341.82</p> <p>Description:- Rails/Loading of rails of any section and length upto 13 metres in Wagons/Truck/trailer including lead upto 50 metres and lift upto 5metres.</p> | | | | | | |
| 28 | <p>Please see Item Breakup for details.</p> <p>150018.00 12.00 168020.16</p> <p>Description:- Loading of 52kg/60kg PSC normal line and special sleepers upto 2.75 metre length inDepot/Station/Mid-section between stations in a neat manner to departmental material train(DMT)or contractor's/Railway'sTruck/Trailer with crane or any other means including crossing of one track with free lead upto 250 metre and lift upto 5metre,if required with contractor's labour, tools & plants, machinery,consumables etc. Note:In case of any damage to sleeper during loading, penalty @ 50% of the all inclusive cost of sleeper shall be levied.</p> | | | | | | |
| 29 | <p>Please see Item Breakup for details.</p> <p>151511.00 12.00 169692.32</p> <p>Description:- Loading, leading and unloading of all types of P.Way fittings and all other miscellaneous material except Rails, sleepers, switches, crossings, SEJs and Glued Joints by road vehicles for different leads.Note:Lead shall be the shortest motorable road length between the points of loading and unloading.</p> | | | | | | |
| 30 | <p>Please see Item Breakup for details.</p> <p>112533.00 12.00 126036.96</p> <p>Description:- Transportation of Rails, sleepers, switches, crossings, SEJs and Glued Joints by road vehicles for different leads .Note: 1.Lead shall be the shortest motorable road length between the points of loading and unloading.2. Loading and unloading shall be paid extra under relevant items</p> | | | | | | |
| 31 | <p>Please see Item Breakup for details.</p> <p>74244.00 12.00 83153.28</p> <p>Description:- Unloading of 52kg/60kg PSC line and special sleepers upto 2.75metre length in Depot/Station/Mid-section between stations in neat manner for Railway/DFCCIL usage from departmental material train (DMT)or contractor's/Railway's Truck/Trailer with crane or any other means including crossing of one track and lead upto 250 metre & lift upto 5 metre with contractor's labour, tools & plants, machinery, consumables etc. Note:In case of any damage to sleeper during loading,penalty@ 50% of the all inclusive cost of sleeper shall be levied.</p> | | | | | | |
| 32 | <p>Please see Item Breakup for details.</p> <p>48539.40 12.00 54364.13</p> <p>Description:- Unloading of 52kg/60 kg PSC special sleepers beyond 2.75 metre length in Depot/Station/Mid-section between stations in neat manner for Railway usage from departmental material train(DMT)or contractor's/Railway's Truck/Trailer with crane or any other means including crossing of one track and lead upto 50metre & lift upto 5metre with contractor's labour ,tools & plants, machinery, consumables etc. Note: In case of any damage to sleeper during loading, penalty @</p> | | | | | | |
| 33 | <p>Please see Item Breakup for details.</p> <p>147855.00 12.00 165597.60</p> <p>Description:- Spreading of New/SH, normal or wider base PSC sleepers from stack along track on either side for different leads with all lifts by any means.</p> | | | | | | |
| 34 | <p>Please see Item Breakup for details.</p> <p>41514.95 12.00 46496.74</p> <p>Description:- Collection, segregation and stacking of various scattered P.Way materials at nominated stacking location with service able and un-serviceable ones separately within a lead up to 500metre and lift up to 5metre including crossing of track(s)wherever necessary as directed by Engineer-in-Charge.</p> | | | | | | |
| | <p>Please see Item Breakup for details.</p> <p>352297.30 12.00 394572.98</p> | | | | | | |

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| 35 | <p>Description:- L-Xing Indicator Boards, Engineering Indicators, Curve Boards etc : /Manufacturing, fabricating and supplying retro-reflective Level Crossing Indicator boards, made of 2mm thick aluminum sheet or 3mm thick aluminum composite sheet ,face to be fully covered with high intensity encapsulated type heat activated retro-reflective sheeting conforming to type-IV of ASTM-D4956-01 in yellow & black or other colour combination including subject matter, message, symbols, borders etc.as approved by Engineer In-charge or as per IRPWM guide lines, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class-2 of ASTM-D-4956-01 and fixing the same with suitable sized aluminium alloy rivets @ 20cmc/c to back-support frame of M.S. angle iron of size 25mmx25mmx3mm provided all along the edges of board with theft resistant measures, back side of board shall be with non-peelable weather-proof paint, consisting of one coat of zinc chromate primer and two coats of epoxy paint. Vertical post shall have black & white anti-corrosive paint or powder coating complete ,as directed.</p> | | | | | | |
| | Please see Item Breakup for details. | 1214728.00 | 12.00 | 1360495.36 | | | |
| 36 | <p>Description:- Manufacturing, fabricating and supplying retro-reflective Engineering Indicator boards ,made of 2mm thick aluminium sheet or 3mm thick aluminium composite sheet, face to be fully covered with high intensity encapsulated type heat activated retro-reflective sheeting conforming to type-IV of ASTM-D4956-01 in yellow & black or other colour combination including subject matter, message, symbols, borders etc.as approvedbyEngineerIn-charge or as per IRPWM guidelines,pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class-2 of ASTM-D-4956-01 and fixing the same with suitable sized aluminium alloy rivets @ 20cmc/c to back-support frame of M.S.angle iron of size25mmx25mmx3mm provided all along the edges of board with theft resistant measures back side of board shall be with non-peelable weather proof paint, consisting of one coat of zinc chromate primer and two coats of epoxy paint. Vertical post shall have black & white anti-corrosive paint or powder coating complete, as directed.</p> | | | | | | |
| | Please see Item Breakup for details. | 2906447.00 | 12.00 | 3255220.64 | | | |
| 37 | <p>Description:- Hiring of machinery for minor miscellaneous works for short duration including operator/driver, fuel, lubricants and consumable. The contractor shall arrange all statutory permits as required by rules and regulations prevailing in the area of work . Payment shall be made for actual working hours at site.</p> | | | | | | |
| | 211220 | 70000.00 | Each | 13.60 | 952000.00 | 12.00 | 1066240.00 |
| 38 | <p>Description:- Supplying and filling 50 kg size empty cement polythene bags with Rly.Ballast / moorum /earth/Sand/quarry dust etc. placing the filled bags on the high banks/bridge approaches/ nominated place etc. dumping and spreading at the nominated locations to profile under block period with all contractor's labour, tools, plants, loading, unloading ,filling, spreading including all lead/ lift etc. complete and as directed by the Engineer in charge at site including crossing of track where necessary.</p> | | | | | | |
| | Please see Item Breakup for details. | 8838.00 | 12.00 | 9898.56 | | | |
| 39 | <p>Description:- Carrying out Through USFD testing of running rails & welds (excluding flange testing)including level crossings ,lead portion of points and crossings and scabbed rail testing of all types of rails by NBC (NeedBasedConcept)method under traffic conditions as per provisions of IR's"/DFCCIL's USFD Manual & Specifications fo Ultrasonic Testing of Rails and Welds "with latest correction slips & related instructions ,duly marking defects, submission of daily reports and storing back-up data, as specified & directed. Note: The SRT/DRTmachine should have minimum of 9 probes (including 370 forward /backward probe for detecting bolt hole cracks.</p> | | | | | | |
| | Please see Item Breakup for details. | 403190.00 | 12.00 | 451572.80 | | | |
| 40 | <p>Description:- Carrying out USFD testing of AluminoThermic(AT)welds on all types of rails,using 0° (2MHz)double crystal ;70° (2MHz) 20mm x20mm single crystal probe for head & flange testing ;2nos.45° (2MHz)single crystal with tandom rig for testing from rail top to bottom & for half moon testing and 70° (2MHz) 20mm x 20 mm side looking probe by NBC (NeedBasedConcept)method under traffic conditions as per provisions of IR's" Manual & Specifications for Ultrasonic Testing of Rails and Welds" & related instructions duly marking the defects, submission of daily reports and storing back-up data as specified & directed.The rates are inclusive of contractor's men, materials & machines complete unless otherwise specified and directed.</p> | | | | | | |
| | 13080 | 3000.00 | Sqm | 833.40 | 2500200.00 | 12.00 | 2800224.00 |
| 41 | <p>Description:- Shoring with 'Z' section MS sheet piles side by side in all kinds of soil mechanically or manually as per approved drawing with contractor's own arrangement complete in all respects and removal of sheet piles after completion of the work as directed by engineer in-chargeNote: Payment will be made as per actual driven length of pile.</p> | | | | | | |
| | 31090 | 1100000.00 | Cubic Centimetre | 1.20 | 1320000.00 | 12.00 | 1478400.00 |
| 42 | <p>Description:- Design,manufacturing, supplying and fixing in position elastomeric bearing true to line and level conforming to IS:3400, IS:226, BS-5400 under prestressed concrete girders/SteelGirders, for Pre-cast as well as cast-in-situ girders as per approved drawing.The rate shall include cost of load test of one no.bearing from Railway/DFCCIL approved firms and all fixing materials ,equipments ,machineries ,labour,taxes,loading,unloading , leading, lifting etc. complete. Rates include getting the drawing approved from Railway and cost of inspection during manufacturing from railway approved organization .Note:1.The rate is for finished item complete and paid only after fixing in position below the girder. 2.The volume shall be as given in the drawing and no deduction shall be made for inserted steel plates etc.</p> | | | | | | |

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|----|--|----------|----------|----------|------------|-------|------------|
| 43 | 51070 | 600.00 | cum | 2482.78 | 1489668.00 | 12.00 | 1668428.16 |
| | Description:- Providing and laying Pitching with Stone Boulders ,weighing not less than 35kg each with voids filled with cement sand mortar 1:4 on slopes laid over prepared filter media including boulder apron laid dry in front of toe of embankment complete as per drawing and Technical Specifications (filter media to be paid separately under the relevant item).Rate is excluding cost of cement which shall be paid extra under relevant item. | | | | | | |
| 44 | Please see Item Breakup for details. | | | | 2716413.00 | 12.00 | 3042382.56 |
| | Description:- Providing and laying Filter Material as per RDSO Specifications underneath pitching in slopes complete as per drawing and Technical Specification. | | | | | | |
| 45 | 025082 | 50000.00 | Kg | 99.95 | 4997500.00 | 12.00 | 5597200.00 |
| | Description:- Thermo-Mechanically Treated bars of grade Fe-500D or more of approved brands/makes | | | | | | |
| 46 | 025040 | 500.00 | cum | 4421.68 | 2210840.00 | 12.00 | 2476140.80 |
| | Description:- Providing and laying in position machine batched,machine mixed and machine vibrated Cement Concrete of specified grade as per approved Design Mix (mixed in Mobile Concrete Batching /Mixing Plant at site using 20mm graded crushed stone aggregate and coarses and of approved quality in jacketing of piers and abutments from bottom of foundation up to a height of 10 m for designed thickness of jacketing including finishing, using Plasticiser in approved proportions (as per IS:9103),to modify workability with out impairing strength and durability complete as per specifications and direction of theEngineer in charge. Note: 1.Payment for cement, reinforcement and shuttering shall be paid extra under relevant item. 2.Plasticizer shall invariably be used in approved proportion to increase workability with minimum possible quantity of cement for all grade of Design Mix Concrete unless it is specifically approved citing reasons for not using plasticisers at the stage of Mix Design and in that case deduction shall be made as per relevant item | | | | | | |
| 47 | 113010 | 500.00 | cum | 254.95 | 127475.00 | 12.00 | 142772.00 |
| | Description:- Cess repair/widening work as per RDSO Specifications and guidelines RDSO/2020/GE:IRS-0004 or latest in running line with suitable soil to the designed profile The work shall include uprooting and disposing of all the vegetation,benching at every 30 Cm vertical height,earth work in benching portion and compaction using suitable slope vibratory Rollers/Compactors etc. to achieve prescribed MDD. Note:1.Payment of cess repairs shall be based on the quantities worked out from the crosssectional calculations only and worked out from the initial ground levels before doing benching and final levels as done for new embankment.The earthwork in benching portion shall not be paid extra as the same has been included in the rate.2.The earthwork shall be started only after Completing of the benching and certified. 3.The benching Work shall be done for a maximum height of 1.50m at any time based on the progress of earthwork starting from toe of the embankment. | | | | | | |
| 48 | 132010 | 1600.00 | TRM | 151.23 | 241968.00 | 12.00 | 271004.16 |
| | Description:- Systemic over hauling of track under traffic as per procedure prescribed in latest edition of IRPWM,including removing the crib ballast in 50 mm to 75mm depth below bottom of sleeper and complete shoulder ballast without breaking core under the bottom of sleeper,to recover clean ballast by screening on wire mesh and disposing off the muck including throwing & leveling, if required beyond minimum 5m from the edge of cutting which are up to 3m deep or alternatively carting it upto 50m for disposing it off beyond cutting or platforms away from the track,as directed by Engineer in-charge including cutting & making up the cess and ensuring proper drainage slope and then re-inserting cleaned ballast into track and compaction of shoulder and crib ballast by wooden mallet and dressing / profiling ballast as per railway specifications./For PSC sleeper Track with Sleeper Density of 1540 sleepers/Km or more | | | | | | |
| 49 | 136040 | 100.00 | Gang Day | 13103.76 | 1310376.00 | 12.00 | 1467621.12 |
| | Description:- Maintenance of track on main line & loops, Points & crossings etc. including special attention to section for carrying out various maintenance works listed in Indian Railways P.Way Manual/Bridge Manual for safe running of goods and passenger trains with contractor's tools/labours etc.complete,as directed by Engineer in-charge. Note: Contractor shall arrange one gang at any point of time comprising of minimum specified labours with sufficient experience in P.Way working./One Gang comprising of 20 physically fit labours plus 1 Mate. Note : In case,contractor provides less no.of Labour/Mate,payment will be deducted for each such labour @ 10% of the accepted item rate. | | | | | | |

| S.No. | Item Code | Item Qty | Qty Unit | Unit Rate | Basic Value | Escl.(%) | Amount | Bidding Unit |
|---------------------------------------|--|----------|----------|-----------|-------------|----------|-------------|---------------------|
| Schedule B-Schedule schedule B | | | | | | | 16899702.40 | Above/ Below/Par |
| 1 | 16310 | 2000.00 | cum | 880.30 | 1760600.00 | 12.00 | 1971872.00 | |
| | Description:- Supplying and stacking at site Moorum(Note:- Stack measurement shall be done as per DSR specifications) | | | | | | | |
| 2 | 412 | 300.00 | cum | 7783.65 | 2335095.00 | 12.00 | 2615306.40 | |
| | Description:- "4.1 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : "1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources) " | | | | | | | |

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| | | | | | | | |
|---|---|------------|-------|------------|------------|-------|------------|
| 3 | Please see Item Breakup for details. | 1627775.00 | 12.00 | 1823108.00 | | | |
| | Description:- " Centering and shuttering including strutting, propping etc. and removal of form work for : " | | | | | | |
| 4 | 51 | 500.00 | cum | 8364.20 | 4182100.00 | 12.00 | 4683952.00 |
| | Description:- "5.1 Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : ""1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size de rived from natural sources) " | | | | | | |
| 5 | 52 | 500.00 | cum | 10185.05 | 5092525.00 | 12.00 | 5703628.00 |
| | Description:- "Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns,pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : "" 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)" | | | | | | |
| 6 | 26 | 500.00 | cum | 181.85 | 90925.00 | 12.00 | 101836.00 |
| | Description:- " Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge. "/All kinds of soil | | | | | | |

| S.No. | Item Code | Item Qty | Qty Unit | Unit Rate | Basic Value | Escl.(%) | Amount | Bidding Unit |
|------------------------------|--|-----------|-----------|-----------|-------------|-----------|-------------|---------------------|
| Schedule C-Schedule C | | | | | | | 67151678.47 | Above/ Below/Par |
| 1 | NSN1 | 10000.00 | cum | 448.00 | 4480000.00 | (-) 15.11 | 3803072.00 | |
| | Description:- Supply and stacking contractor's own locally available quarry rubbish / earth/mooram as approved by Engineer at places nominated by Engineer - in - charge with contractor's own material, T&Ps, vehicle, labor etc with all leads, lift, taxes, octroi & Royalties etc complete. | | | | | | | |
| 2 | NSN2 | 10000.00 | cum | 180.00 | 1800000.00 | (-) 15.11 | 1528020.00 | |
| | Description:- Picking up of quarry rubbish / earth / mooram from stacks available along the track with all lift & lead up to 150M including of track, where ever necessary and spreading uniformly for strengthening of existing embankment as per instructions of Engineer in charge. | | | | | | | |
| 3 | NSN3 | 10000.00 | Sqm | 7.50 | 75000.00 | (-) 15.11 | 63667.50 | |
| | Description:- Cutting vetiver / weeds and bushes from track embankment by contractor's disc cutter machine and disposed off the waste material near or outside DFCCIL ROW (Far away from track)as per instruction of Engineer in charge with all lift , lead including crossing of track, if required including patrol, maintenance of machine & Disc etc | | | | | | | |
| 4 | NSN4 | 150000.00 | Each | 174.48 | 26172000.00 | (-) 15.11 | 22217410.80 | |
| | Description:- "Tamping of track for picking up slacks in concrete sleeper track by Hand Held Off Track Tamper (Engine Mounted Version) to be used in pair of make Atlas Copco/Chakradhar Industries/Laxmi Engineering Works or Equivalent with contractor's manpower, tools & plants, equipment, consumable with all lead & lift etc. complete, as directed by Engineer in-charge. Off-track tamper will be as per RDSO Specification No. TM/SM/OTT/321, dated 28.01.2009" | | | | | | | |
| 5 | NSN6 | 8000.00 | Day | 723.51 | 5788080.00 | (-) 15.11 | 4913501.11 | |
| | Description:- "Arranging labor for performing duties of a keyman / MTS as and when required by the Engineer incharge,for various works under DPM / APM, with contractor's T&P, equipments, hand signal flags, etc. as per specifications, special conditions and detailed scope of work as furnished in the tender and as directed by the Engineer incharge. [NOTE:- 1.The person deployed for patrolling must have the following items: • Valid certificate of competency issued by DFCCILs. • Medical certificate issued by DFCCIL fit for A-3 medical category. 2.The following equipment will be supplied by DFCCILs for each patrolman and same to be handed over back to DFCCILs in good condition: • Detonators - 10 nos. if used, bursted detonators to be handed over back and report with reasons for use. For a maximum duration of 8 hrs." | | | | | | | |
| 6 | NSN7 | 150.00 | Per Month | 248107.50 | 37216125.00 | (-) 15.11 | 31592768.51 | |

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| | | | | | | | |
|---|---|----------|---------|--------|------------|-----------|------------|
| | Description:- "Maintenance of track on main line & loops, Points & crossings etc. including special attention to section for carrying out various maintenance works listed in Indian DFCCILs P.Way Manual / Bridge Manual / LWR Manual for safe running of goods and passenger trains with contractor's tools / labours etc. complete, as directed by Engineer in-charge including but not limited to keeping of stores material, taking out and stacking material of stores, repair to SSD, assistance in schedule inspections of Exe/Sr Exe/APM, casual shifting/putting in of ballast in yard or mid section, material stacking and removal in mid section/yard. {Note: (1) Contractor shall arrange one team comprising of minimum 7 labours and one P.Way Supervisor with sufficient experience in P.Way working for full month. Further, weekly rest shall be given to the workers and alternate arrangement of worker shall be done on such weekly rest (2) In case, contractor provides less no. of Labour / Supervisor, payment will be deducted @ 0.5% of the accepted rate per person (3) Payment shall be given for the above team (7 labours + 1 supervisor) per station wise}" | | | | | | |
| 7 | NSN8 | 26000.00 | cum | 41.62 | 1082120.00 | (-) 15.11 | 918611.67 |
| | Description:- "Unloading of ballast from Railway's/DFCCIL Hopper Wagons under block condition including taking out jammed ballast from hopper gates as per need and manually emptying out of ballast if due to some condition it remains in hopper only. emptying out of ballast shall be done in yard or as per instructions of engineer in charge" | | | | | | |
| 8 | NSN9 | 2800.00 | cum | 810.00 | 2268000.00 | (-) 15.11 | 1925305.20 |
| | Description:- supply | | | | | | |
| 9 | NSN10 | 12600.00 | Numbers | 17.70 | 223020.00 | (-) 15.11 | 189321.68 |
| | Description:- Supplying empty HDPE bag of 750mm x 350mm at specified locations as desired by Engineer incharge/his representative including cost of all lead, lift, labour, material, T&P, C&P, Taxes, GST etc. The rate also includes cost for crossing of track nalla, ascents, descents or any other obstructions to be met with as a complete job. | | | | | | |

| S.No. | Item Code | Item Qty | Qty Unit | Unit Rate | Basic Value | Escl.(%) | Amount | Bidding Unit | |
|------------------------------|--|----------|----------|------------|-------------|----------|------------|---------------------|--|
| Schedule D-Schedule D | | | | | | | 2500000.00 | Above/ Below/Par | |
| 1 | 1 | 1.00 | Lumpsum | 2500000.00 | 2500000.00 | AT Par | 2500000.00 | | |
| | Description:- Any item USSOR 2021 | | | | | | | | |

3. ITEM BREAKUP

| | | | | | | | | | |
|-----------------|---|---|--|--|--|-------------|--------------|------------------|---------------|
| Schedule | Schedule A- schedule a schedule A | | | | | | | | |
| Item- 5 | Replacement of any type of sleepers in track with PSC sleepers lying on cess or at Bridge Approaches for casual renewal at isolated locations with all fittings complete to specified gauge & cross level with contractor's tools including packing and dressing of ballast,as directed by Engineer in-charge.Released materials shall be neatly stacked and handed over at specified location with in an average lead of 250m or near either side of Bridge approaches as directed. | | | | | | | | |
| S No. | Item No | Description of Item | | | | Unit | Qty | Rate | Amount |
| 1 | 062031 | Locations other than Ballasted Deck Bridge | | | | Each | 300.00 | 402.35 | 120705.00 |
| 2 | 062032 | Ballasted Deck Bridge | | | | Each | 150.00 | 475.10 | 71265.00 |
| | | | | | | | Total | 191970.00 | |
| Item- 6 | Cutting/cropping of rail of 60Kg-90UTS,manually and perfectly vertical with contractor's labour, hacksaw blade and tools & plants - Note:1.Manual cutting should be used only in emergencies with prior permission of sectional ADEN where machine cutting cannot be arranged in time. 2.Cutting of Rails with blade and forcing to part by using other means to break the rails is prohibited.3.Rails should be cut right through hacksaw blades only. | | | | | | | | |
| S No. | Item No | Description of Item | | | | Unit | Qty | Rate | Amount |
| 1 | 064031 | On Cess | | | | Each | 60.00 | 282.91 | 16974.60 |
| 2 | 064032 | In-situ situation | | | | Each | 60.00 | 413.34 | 24800.40 |
| 3 | 064033 | Extra to item no. 064031 for cutting 110 UTS rail | | | | Each | 60.00 | 42.44 | 2546.40 |
| 4 | 064034 | Extra to item no. 064032 for cutting 110 UTS rail | | | | Each | 60.00 | 62.00 | 3720.00 |
| | | | | | | | Total | 48041.40 | |
| Item- 11 | Providing Caution Watchman at a location where caution order is imposed and ensuring to be on continuous vigil and exhibit necessary hand signals to the trains for their passage over caution spot. Note:1)Prescribed protection equipment shall be supplied by Railways/DFCCIL and the same shall be returned after work is over. 2)If Contractor fails to post watchman at any time during one day,penalty at double the accepted rates will be levied and 3)The watchman nominated by the contractor will be screened for suitability as per Railway norms. | | | | | | | | |

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| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
|-----------------|--|---|-------|---------|--------------|-------------------|
| 1 | 124031 | For one shift (12 Hrs) | Each | 140.00 | 1054.29 | 147600.60 |
| 2 | 124032 | For Half Shift (4 hours) | Each | 2700.00 | 355.89 | 960903.00 |
| | | | | | Total | 1108503.60 |
| Item- 22 | Painting 2 coats to various P.Way Reference Post, Structures etc. with enamel paint of approved make with 2coats of different colours & letters, as directed by Engineer in-charge. | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 137081 | Kilometre & Gradient post | Each | 450.00 | 84.69 | 38110.50 |
| 2 | 137082 | Hectometre Post | Each | 3500.00 | 97.40 | 340900.00 |
| 3 | 137083 | LWR / SEJ Board | Each | 600.00 | 149.18 | 89508.00 |
| 4 | 137084 | Level Crossing Boards including Road Sign Boards | Each | 80.00 | 169.92 | 13593.60 |
| 5 | 137085 | Level Crossing Post | Each | 80.00 | 167.83 | 13426.40 |
| 6 | 137086 | Curve Post | Each | 80.00 | 89.51 | 7160.80 |
| 7 | 137087 | Level Crossing Boom including fringe | Metre | 600.00 | 139.15 | 83490.00 |
| 8 | 137088 | Level Crossing Boom without fringe | Metre | 80.00 | 113.72 | 9097.60 |
| 9 | 137089 | Curve Board | Each | 450.00 | 149.18 | 67131.00 |
| 10 | 137090 | Curve details, SE, Versine, Station Nos. etc. per station. | Each | 450.00 | 47.93 | 21568.50 |
| | | | | | Total | 683986.40 |
| Item- 23 | Painting 2 coats to Bridge Reference/Boards, Structures etc.along track with enamel paint of approved make with different colours & letters, as directed by Engineer in-charge. | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 137101 | Bridge Board | Each | 120.00 | 149.18 | 17901.60 |
| 2 | 137102 | Bridge Tablet | Each | 850.00 | 42.64 | 36244.00 |
| 3 | 137103 | Bridge Height Gauge | Each | 850.00 | 2534.72 | 2154512.00 |
| 4 | 137104 | HFL, FSL & DL on Bridge Pier / Abutment | Each | 850.00 | 634.63 | 539435.50 |
| 5 | 137105 | Miscellaneous General Boards, Jurisdiction Boards, Structures etc. | Sqm | 1000.00 | 115.99 | 115990.00 |
| | | | | | Total | 2864083.10 |
| Item- 25 | Unimat Machine Related Works/Carrying out pre-tamping, during tamping and post-tamping works for tamping of Turnouts of all types Under Traffic Block Conditions which include: (1) Re-adjustment of ballast,heaping-up of ballast,filling-up of fcavities in tamping zone by picking ballast from stacks/shoulders/crib of adjoining track up to lead of 50m to ensure effective packing; (2)Clearing of ballast on sleepers to make them visible to operator;(3) Clearing of ballast over rail foot to facilitate holding of rail by rollers ofUNIMAT;(4)Digging, screening and replenishment of ballastat mud pumping/rounded ballast in sleeper crib location;(5)Tightening of loose fittings including checkrails immediately before & after tamping; (6)Replacement of broken/missing fittings supplied by Railway/DFCCIL;(7)Correcting displaced sleepers to position along withs quaring;(8)Re-setting worked-out/fallen fittings; (9)Removing and re-fixing joggled fishplates & woodenblocks, OHEbonds & other obstructions,wherever necessary;(10)Removing and re-fixing stretcherbar,as directed;(11)Adjustment in opening and housing of switch for testing operation of points(12)Manual consolidation of ballast in cribs and shoulders;(13)Stages of payment a)30% of th rate will be paid on completion of pretamping attention,b)Balance70% of the rate will be paid on completion of posttamping; (14)Recovery at the rate of twice the applicable rate will be effected in case contractor fails to carry out any of the pre/during/post operation. | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 156011 | 1 in 8½ Turnouts (Under Traffic Block Conditions) | Set | 40.00 | 7949.56 | 317982.40 |
| 2 | 156012 | 1 in 12 Turnouts (Under Traffic Block Conditions) | Set | 100.00 | 9250.57 | 925057.00 |
| 3 | 156015 | Derailing Switch (Under Traffic Block Conditions) | Set | 40.00 | 2930.22 | 117208.80 |
| 4 | 156020 | Extra Over Item Numbers 156011 to 156015 for night block working/Extra to Item no. 156011 for night block working | Set | 40.00 | 1192.43 | 47697.20 |
| 5 | 156022 | Extra to Item no. 156012 for night block working | Set | 100.00 | 1387.59 | 138759.00 |
| 6 | 156025 | Extra to Item no. 156015 for night block working | Set | 40.00 | 439.53 | 17581.20 |
| | | | | | Total | 1564285.60 |
| Item- 27 | Rails/Loading of rails of any section and length upto 13 metres in Wagons/Truck/trailer including lead upto 50 metres and lift upto 5metres. | | | | | |

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| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
|-----------------|--|--|-------|--------|--------------|------------------|
| 1 | 171011 | In wagons during period of traffic block where handling by mechanical means is not possible | MT | 30.00 | 242.44 | 7273.20 |
| 2 | 171012 | In wagons not involving traffic block or onlines not opened to traffic but handling by mechanical means is not possible | MT | 40.00 | 138.30 | 5532.00 |
| | | | | | Total | 12805.20 |
| Item- 28 | Loading of 52kg/60kg PSC normal line and special sleepers upto 2.75 metre length in Depot/Station/Mid-section between stations in a neat manner to departmental material train(DMT)or contractor's/Railway's Truck/Trailer with crane or any other means including crossing of one track with free lead upto 250 metre and lift upto 5metre,if required with contractor's labour, tools & plants, machinery,consumables etc. Note:In case of any damage to sleeper during loading, penalty @ 50% of the all inclusive cost of sleeper shall be levied. | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 172011 | In wagons during period of traffic block where handling by mechanical means is not possible | MT | 300.00 | 197.37 | 59211.00 |
| 2 | 172012 | In wagons not involving traffic block or onlines, not opened to traffic but handling by mechanical means is not possible | MT | 300.00 | 113.48 | 34044.00 |
| 3 | 172013 | In Wagon where mechanical handling is possible and traffic block is required. | MT | 300.00 | 108.04 | 32412.00 |
| 4 | 172014 | In Wagon where mechanical handling is possible and traffic block is not required or in Truck / trailer | MT | 300.00 | 81.17 | 24351.00 |
| | | | | | Total | 150018.00 |
| Item- 29 | Loading, leading and unloading of all types of P.Way fittings and all other miscellaneous material except Rails, sleepers, switches, crossings, SEJs and Glued Joints by road vehicles for different leads.Note:Lead shall be the shortest motorable road length between the points of loading and unloading. | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 172041 | Lead up to 5 Km | MT | 100.00 | 147.28 | 14728.00 |
| 2 | 172042 | Lead beyond 5 Km and up to 10 km | MT | 50.00 | 188.44 | 9422.00 |
| 3 | 172043 | Lead beyond 10 Km and up to 20 km | MT | 50.00 | 244.97 | 12248.50 |
| 4 | 172044 | Lead beyond 20 Km and up to 30 km | MT | 50.00 | 314.47 | 15723.50 |
| 5 | 172045 | Lead beyond 30 Km and up to 50 km | MT | 50.00 | 411.83 | 20591.50 |
| 6 | 172046 | Lead beyond 50 Km and up to 100 Km | MT | 50.00 | 625.57 | 31278.50 |
| 7 | 172047 | Lead beyond 100 Km and up to 150 Km | MT | 50.00 | 943.90 | 47195.00 |
| 8 | 172048 | Extra for every Km per MT beyond 150 Km over item no. 172047 | MT/Km | 100.00 | 3.24 | 324.00 |
| | | | | | Total | 151511.00 |
| Item- 30 | Transportation of Rails, sleepers, switches, crossings, SEJs and Glued Joints by road vehicles for different leads .Note: 1.Lead shall be the shortest motorable road length between the points of loading and unloading.2. Loading and unloading shall be paid extra under relevant items | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 172051 | Lead up to 5 Km | MT | 100.00 | 49.84 | 4984.00 |
| 2 | 172052 | Lead beyond 5 Km and up to 10 km | MT | 50.00 | 90.99 | 4549.50 |
| 3 | 172053 | Lead beyond 10 Km and up to 20 km | MT | 50.00 | 147.52 | 7376.00 |
| 4 | 172054 | Lead beyond 20 Km and up to 30 km | MT | 50.00 | 217.02 | 10851.00 |
| 5 | 172055 | Lead beyond 30 Km and up to 50 km | MT | 50.00 | 314.38 | 15719.00 |
| 6 | 172056 | Lead beyond 50 Km and up to 100 Km | MT | 50.00 | 528.13 | 26406.50 |
| 7 | 172057 | Lead beyond 100 Km and up to 150 Km | MT | 50.00 | 846.46 | 42323.00 |
| 8 | 172058 | Extra for every Km per MT beyond 150 Km over item no. 172057 | MT | 100.00 | 3.24 | 324.00 |
| | | | | | Total | 112533.00 |
| Item- 31 | Unloading of 52kg/60kg PSC line and special sleepers upto 2.75metre length in Depot/Station/Mid-section between stations in neat manner for Railway/DFCCIL usage from departmental material train (DMT)or contractor's/Railway's Truck/Trailer with crane or any other means including crossing of one track and lead upto 250 metre & lift upto 5 metre with contractor's labour, tools & plants, machinery, consumables etc. Note:In case of any damage to sleeper during loading,penalty@ 50% of the all inclusive cost of sleeper shall be levied. | | | | | |

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| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
|-----------------|---|--|------|---------|--------------|------------------|
| 1 | 172061 | From DMT - During period of traffic block | MT | 150.00 | 141.58 | 21237.00 |
| 2 | 172062 | From DMT-Not involving traffic block or on lines, not opened to traffic | MT | 300.00 | 100.63 | 30189.00 |
| 3 | 172063 | From Truck / Trailer | MT | 300.00 | 76.06 | 22818.00 |
| | | | | | Total | 74244.00 |
| Item- 32 | Unloading of 52kg/60 kg PSC special sleepers beyond 2.75 metre length in Depot/Station/Mid-section between stations in neat manner for Railway usage from departmental material train(DMT)or contractor's/Railway's Truck/Trailer with crane or any other means including crossing of one track and lead upto 50metre & lift upto 5metre with contractor's labour ,tools & plants, machinery, consumables etc. Note: In case of any damage to sleeper during loading, penalty @ | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 172071 | From DMT - During period of traffic block | MT | 130.00 | 179.78 | 23371.40 |
| 2 | 172072 | From DMT-Not involving traffic block or on lines not opened to traffic | MT | 130.00 | 114.55 | 14891.50 |
| 3 | 172073 | From Truck/Trailer | MT | 130.00 | 79.05 | 10276.50 |
| | | | | | Total | 48539.40 |
| Item- 33 | Spreading of New/SH, normal or wider base PSC sleepers from stack along track on either side for different leads with all lifts by any means. | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 172081 | For a lead up to 500m | Each | 1500.00 | 59.03 | 88545.00 |
| 2 | 172082 | Extra to Itemno.172081 for additional lead of every 500m or part thereof beyond 500 m | Each | 1500.00 | 39.54 | 59310.00 |
| | | | | | Total | 147855.00 |
| Item- 34 | Collection, segregation and stacking of various scattered P.Way materials at nominated stacking location with service able and un-serviceable ones separately within a lead up to 500metre and lift up to 5metre including crossing of track(s)wherever necessary as directed by Engineer-in-Charge. | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 173031 | Rails, switches, crossings, SEJ, Glued Joints, Check Rails etc. | MT | 47.00 | 325.22 | 15285.34 |
| 2 | 173032 | All type of PSC sleepers | MT | 47.00 | 355.12 | 16690.64 |
| 3 | 173033 | P.Way fittings of all types and other similar loose items | MT | 29.00 | 328.93 | 9538.97 |
| | | | | | Total | 41514.95 |
| Item- 35 | L-Xing Indicator Boards, Engineering Indicators, Curve Boards etc : /Manufacturing, fabricating and supplying retro-reflective Level Crossing Indicator boards, made of 2mm thick aluminum sheet or 3mm thick aluminum composite sheet ,face to be fully covered with high intensity encapsulated type heat activated retro-reflective sheeting conforming to type-IV of ASTM-D4956-01 in yellow & black or other colour combination including subject matter, message, symbols, borders etc.as approved by Engineer In-charge or as per IRPWM guide lines, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class-2 of ASTM-D-4956-01 and fixing the same with suitable sized aluminium alloy rivets @ 20cmc/c to back-support frame of M.S. angle iron of size 25mmx25mmx3mm provided all along the edges of board with theft resistant measures, back side of board shall be with non-peelable weather-proof paint, consisting of one coat of zinc chromate primer and two coats of epoxy paint. Vertical post shall have black & white anti-corrosive paint or powder coating complete ,as directed. | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 202011 | Bilingual Whistle Boards for level crossing of size 600mmx600mm of each board with back support frame welded to vertical post of MST section of size 75mm x 75mm x 6mm x 3950mm | Set | 10.00 | 6558.52 | 65585.20 |
| 2 | 202012 | Speed Breaker/Rumble Strips Board of size 900 mm equilateral triangular shape and 600mmx200mm boards with back support frame welded to vertical post of MST section of size 80mmx80mmx8mmx3650mm | Set | 10.00 | 5991.81 | 59918.10 |
| 3 | 202013 | Un-manned Level Crossing Danger Stop Board of size 675mmx525 mm with back support frame welded to vertical post of MS angle of size 50mmx50mmx6mmx3650mm | Set | 10.00 | 3865.71 | 38657.10 |

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Tender No: Mum_N_EN_TrackMaintenance

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|-----------------|---|---|-------------|------------|--------------|-------------------|
| 4 | 202014 | Manned Level Crossing Indicator Board of size 900 mm equilateral triangular shape with back support frame welded to vertical post of MS T section of size 80mmx80mmx8mmx3650mm | Set | 10.00 | 5516.91 | 55169.10 |
| 5 | 202015 | Single Strip/Double Strip Level Crossing Road Warning Board of size 900mm equilateral triangular shape and 900x300 board with back support frame welded to vertical post of MST section of size 80mmx80mmx8mmx3650mm | Set | 10.00 | 6325.46 | 63254.60 |
| 6 | 202016 | Manufacturing and supply of circular STOP Disc of 600 mm dia for fixing on emergency chains at level crossings as given in IRPWM including providing Retroreflective sheet fully covered over board conforming to type-IV of ASTM-D4956 in red background colour and text "STOP" of white colour over back ground. The circular board shall consists of 2 mm thick Aluminium sheet fixed to 1.5mm thick MS Sheet of 600 mm dia with suitable sized aluminium alloy rivets@ 20cmc/c to back-support. Retroreflective sheet is to be pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class-2 of ASTM-D-4956-01. A vertical holding stand of 1000 mm lengthx15mm thick to be jointed to back side of board along with a hook for fixing emergency chain as directed by Engineer In charge. | Each | 20.00 | 3485.66 | 69713.20 |
| | | | | | Total | 352297.30 |
| Item- 36 | Manufacturing, fabricating and supplying retro-reflective Engineering Indicator boards ,made of 2mm thick aluminium sheet or 3mm thick aluminium composite sheet, face to be fully covered with high intensity encapsulated type heat activated retro-reflective sheeting conforming to type-IV of ASTM-D4956-01 in yellow & black or other colour combination including subject matter, message, symbols, borders etc.as approvedbyEngineerIn-charge or as per IRPWM guidelines,pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class-2 of ASTM-D-4956-01 and fixing the same with suitable sized aluminium alloy rivets @ 20cmc/c to back-support frame of M.S.angle iron of size25mmx25mmx3mm provided all along the edges of board with theft resistant measures back side of board shall be with non-peelable weather proof paint, consisting of one coat of zinc chromate primer and two coats of epoxy paint. Vertical post shall have black & white anti-corrosive paint or powder coating complete, as directed. | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 202021 | Caution Indicator Board of size 1400 mmx400 mm with back support frame fixed to vertical post of MS angle of size 50mmx50mmx6mm of 3650 mm long | Each | 50.00 | 5456.57 | 272828.50 |
| 2 | 202022 | Speed Indicator Board of equilateral triangular shape having each side of 1000 mm with back support frame fixed to vertical post of MS angle of size 50mmx50mmx6mm of 3650 mm long | Each | 50.00 | 4675.76 | 233788.00 |
| 3 | 202023 | Stop Indicator Board of size 1400mmx400mm with back support frame fixed to vertical post of MS angle of size 50mmx50mmx6mm of 3650 mm long | Each | 50.00 | 5456.57 | 272828.50 |
| 4 | 202024 | Termination Indicator Board of Circular shape having diameter of 1000mm with back support frame welded to vertical post of MS angle | Each | 50.00 | 6725.52 | 336276.00 |
| 5 | 202030 | Manufacturing, supplying and fixing Curve Indicator/Point Indicator/SEJ Boards to be provided at various locations on formation, made out of MS sheet 2mm thick of size 450mmx300mm duly fixed with MS frame of 25mmx25mmx3mm angle welded to 50mmx50mmx3mm MS angle,1000 mm long post split and bent 100 mm at bottom end with all lead & lift as per specification and including painting of details with enamel paint, as directed by Engineer in-charge(Earthwork & concreting will be paid separately) | Each | 100.00 | 990.07 | 99007.00 |
| | | | | | Total | 1214728.00 |
| Item- 37 | Hiring of machinery for minor miscellaneous works for short duration including operator/driver, fuel, lubricants and consumable. The contractor shall arrange all statutory permits as required by rules and regulations prevailing in the area of work . Payment shall be made for actual working hours at site. | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |

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|-----------------|---|--|-------------|------------|--------------|-------------------|
| 1 | 211201 | JCB Backhoe Loaders 3DX Plus or similar with minimum 1.10 cum bucket capacity | Hour | 1600.00 | 781.72 | 1250752.00 |
| 2 | 211202 | Hydra or similar tyre mounted Pick-n-Carry crane of 12T capacity for misc. works of handling of material | Hour | 1500.00 | 836.21 | 1254315.00 |
| 3 | 211203 | Tractor with Trolley for local transportation or other misc. works. | Hour | 2000.00 | 200.69 | 401380.00 |
| | | | | | Total | 2906447.00 |
| Item- 39 | Carrying out Through USFD testing of running rails & welds (excluding flange testing)including level crossings ,lead portion of points and crossings and scabbed rail testing of all types of rails by NBC (NeedBasedConcept)method under traffic conditions as per provisions of IR's"/DFCCIL's USFD Manual & Specifications fo Ultrasonic Testing of Rails and Welds "with latest correction slips & related instructions ,duly marking defects, submission of daily reports and storing back-up data, as specified & directed. Note: The SRT/DRTmachine should have minimum of 9 probes (including 370 forward /backward probe for detecting bolt hole cracks. | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 141021 | With Contractor's USFD machine | TRM | 900.00 | 5.47 | 4923.00 |
| 2 | 141022 | With Railway's/DFCCIL USFD machine including related T&P and probes | TRM | 900.00 | 4.35 | 3915.00 |
| | | | | | Total | 8838.00 |
| Item- 40 | Carrying out USFD testing of AluminoThermic(AT)welds on all types of rails,using 0° (2MHz)double crystal ;70° (2MHz) 20mm x20mm single crystal probe for head & flange testing ;2nos.45° (2MHz)single crystal with tandom rig for testing from rail top to bottom & for half moon testing and 70° (2MHz) 20mm x 20 mm side looking probe by NBC (NeedBasedConcept)method under traffic conditions as per provisions of IR's" Manual & Specifications for Ultrasonic Testing of Rails and Welds" & related instructions duly marking the defects, submission of daily reports and storing back-up data as specified & directed.The rates are inclusive of contractor's men, materials & machines complete unless otherwise specified and directed. | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 142010 | Track having more than 3Rail panels-With Contractor's USFD machine. | Each | 2000.00 | 168.09 | 336180.00 |
| 2 | 142012 | Track having more than 3 rail panels-With Railways'/DFCCIL's USFD machine including related T&P and probes : | Each | 500.00 | 134.02 | 67010.00 |
| | | | | | Total | 403190.00 |
| Item- 44 | Providing and laying Filter Material as per RDSO Specifications underneath pitching in slopes complete as per drawing and Technical Specification. | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 51080 | Providing and laying Filter Material as per RDSO Specifications underneath pitching in slopes complete as per drawing and Technical Specification./Supply and using Cement at Worksite | cum | 500.00 | 2756.95 | 1378475.00 |
| 2 | 025072 | Ordinary Portland Cement 53 grade of approved brands/makes | MT | 200.00 | 6689.69 | 1337938.00 |
| | | | | | Total | 2716413.00 |
| Schedule | Schedule B-Schedule schedule B | | | | | |
| Item- 3 | " Centering and shuttering including strutting, propping etc. and removal of form work for : " | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 4.3.1 | Foundations, footings, bases for columns | Sqm | 500.00 | 307.95 | 153975.00 |
| 2 | 4.3.2 | "Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc." | Sqm | 1000.00 | 669.55 | 669550.00 |
| 3 | 4.3.3 | Columns, piers, abutments, pillars, posts and struts | Sqm | 1000.00 | 804.25 | 804250.00 |
| | | | | | Total | 1627775.00 |

4. ELIGIBILITY CONDITIONS

Special Technical Criteria

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| S.No. | Description | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|-------------------------|-----------------------|-----------------|---------------------|
| 1 | As per Tender Document. | No | No | Allowed (Mandatory) |

Special Financial Criteria

| S.No. | Description | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|-------------------------|-----------------------|-----------------|---------------------|
| 1 | As per Tender Document. | No | No | Allowed (Mandatory) |

5. COMPLIANCE

Check Lst

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

Commercial-Compliance

| S.No. | Description | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|---|-----------------------|-----------------|---------------------|
| 1 | As per Tender Document. | No | No | Allowed (Mandatory) |
| 2 | 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 | Yes | Allowed (Optional) |
| 3 | 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 | Yes | Allowed (Optional) |

Undertakings

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

6. Documents attached with tender

| S.No. | Document Name | Document Description |
|-------|--------------------------|------------------------|
| 1 | TenderDocument.pdf | Tender Document |
| 2 | NoticeInvitingTender.pdf | Notice Inviting Tender |
| 3 | IREPSDocument.pdf | Documents |

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: JAGDISH VIJAY RATHOD

Designation : DYPM