

NAGPUR METRO RAIL CORPORATION LIMITED (NMRCL)

RATE SHEET

Schedule "A"

Name of Work : - Construction of bridges (including Rail-Over-Bridge over Concor siding at Khapri), retaining walls, boundary walls and earthwork in Depot and at-Grade Section between Ch. 14200 - Ch. 21504.5 in Airport-Khapari-Mihan depot section on North – South Corridor of Nagpur Metro Rail Project “

The Schedule comprising of the;

Section - I : USSOR ITEMS - Earthwork

Section - II : USSOR items - Bridges, Boundary/Retaining Wall and other Items

Section - III : NS Items

Section - IV : SUPPLY ITEM (Cement)

Section - V : Any other items Not covered in Sections I, II, III, IV

Sr. No.	Description of Schedule	Estimated cost in Rs.	% above/at par/below to be quoted in figures and words.	
			In Figures	In Words
1	2	3	4	5
1	Section - I	147,980,463.00	_____ %age Above/Below/at par over estimated Rates	_____ %age Above/Below/at par over estimated Rates
2	Section - II	213,386,621.30	_____ %age Above/Below/at par over estimated Rates	_____ %age Above/Below/at par over estimated Rates

Sr. No.	Description of Schedule	Estimated cost in Rs.	% above/at par/below to be quoted in figures and words.	
			In Figures	In Words
3	Section - III	322,379,057.64	_____ %age Above/Below/at par over estimated Rates	_____ %age Above/Below/at par over estimated Rates
4	Section - IV	105,560,000.00	_____ %age Above/Below/at par over estimated Rates	_____ %age Above/Below/at par over estimated Rates
5	Section - V	15,000,000.00	_____ %age Above/Below/at par over estimated Rates	_____ %age Above/Below/at par over estimated Rates
Total=		804,306,141.94		
Say, Total=		804,306,142.00		

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Schedule "A"

Section - I : USSOR ITEMS - Earthwork

Sr No	Description as per USSOR	Unit	Qty.	Rate/ Unit	Amount	Reference (USSOR)
1	Earth work in excavation for Foundation of structures					
A	Earth work in excavation for Foundations and floors of the bridges,retaining walls etc.,including setting out,dressing of sides,ramming of bottom,getting out the excavated material and consolidation of the layers by ramming and watering etc.incl. all lift, disposal of surplus soil upto a lead of 300m, all types of shoring and strutting with all labour and material complete as per drawing and technical specification as directed by Engineer in charge. For all kinds of soil. For Box Bridges, Retaining Wall and Boundary Wall and Viaduct Portion					
		Cu.M	22700	209.69	4759963	I. N.192010 & 192011 Pg. No. 234
B	Earth work in excavation for Foundation and floors of the bridges,retaining walls etc.,including setting out,dressing of sides,ramming of bottom,getting out the excavated material and consolidation of the layers by ramming and watering etc.incl. all lift, disposal of surplus soil upto a lead of 300m, all types of shoring and strutting with all labour and material complete as per drawing and technical specification as directed by Engineer in charge. For ordinary rock. For Box Bridges, Retaining Wall and Boundary Wall and Viaduct Portion					
		Cu.M	12300	264.68	3255564	I. N.192010 & 192012 Pg. No. 234
C	Earth work in excavation for Foundation and floors of the bridges,retaining walls etc.,including setting out,dressing of sides,ramming of bottom,getting out the excavated material and consolidation of the layers by ramming and watering etc.incl. all lift, disposal of surplus soil upto a lead of 300m, all types of shoring and strutting with all labour and material complete as per drawing and technical specification as directed by Engineer in charge. For rock (Blasting Prohibited) For Viaduct Portion					
		Cu.M	2300	459.92	1057816	I. N.192010 & 192014 Pg. No. 234
2	Earth work in excavation for Track formation					
A	Earthwork in cutting (Classified) in formation,trolly refuges, side drains, level crossing approaches, platforms,catch water drains,diversion of nallah & finishing to required dimensions and slopes to obtain a neat appearance to standard profile inclusive of all labour,machine and materials and removing & leading all cut spoils either to make spoil dumps beyond 10m. from cutting edge or for filling in embankment with all leads within the section limit,lifts,ascent,descent,loading,unloading,all taxes/royalty, clearance of site and all incidental charges,bailing&pumping out water if required,etc.,complete as per directions of the Engineer-in-Charge. The work is to be executid as per Latest/updated edition of "Guidelines for Earthwork in Railway Projects" issued by RDSO,Lucknow.Cut trees shall be property of Railways and to be deposited in the railway godown unless specified otherwise in the Special condition of contract.Note-(i) All usable earth arising from cut spoils shall be led into bank formation and Unusable spoils shall be dumped/ stacked (ii) All hard rock /and boulders not fit for filling will be stacked by the contractor and will be property of the Railways.- In all condition and classification of soil except rock . For Track Formation and Nallah Diversion. (Free Lead is 300M)					
		Cu.M	44000	168.38	7408720	I. N. 013110 & 013111 Pg. No. 3

NAGPUR METRO RAIL PROJECT (NMRP)

Sr No	Description as per USSOR	Unit	Qty.	Rate/ Unit	Amount	Reference (USSOR)
3	Earth work in embankment (Good soil Material) for Track formation					
A	Earthwork in filling in embankment,guide bunds,around buried type abutments,bridge gaps,trolley refuges,rain bunds if provided,platforms etc. with earth excavated from outside railway boundry entirely arranged by the contractor at his own cost as per RDSO's latest guidelines and specifications and special condition of contract including all leads, royalty, lifts, ascents, descents, crossing of nallahs or any other obstructions.The rates shall include all dressing of bank to final profile, demarcation and setting out of profile, site clearance, removing of shrubs, roots of vegetations growth, heavy grass, benching of exsting slope of old bank, all handling/re-handling. taxes,octori and royalty etc.as a complete job. Cut trees shall be property of railways and to be deposited in the railway godown unless specified otherwise in the Special condition of contract.					
		Cu.M	340000	369.90	125766000	I. N. 013120 Pg. No. 3
B	Extra for mechanical compaction of earth/blanketing material filled in embankment with contractor's rollers of suitable capacity, type and size to achieve specified density as per specification,testing as per IS codes incl. cost of water, T&P consumable material and all labour as a complete job. The work is to be executed as per Latest edition of "Guidelines for Earthwork in Railway Projects" issued by RDSO,Lucknow.					
		Cu.M	340000	16.86	5732400	I. N. 013130 Pg. No. 3
Total Cost =					147980463	

Signature of tenderer(s)/Contractor(s)

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Schedule "A"

Section - II : USSOR items - Bridges, Boundary/Retaining Wall and other Items

Sr No	Description as per USSOR	Unit	Qty.	Rate/ Unit	Amount	Reference (USSOR)
1	Supplying and Filling of Sand					
	Supplying and Filling of sand in Plinth and under floors including watering, ramming, consolidating and dressing complete. Below Box Bridges Base Slab					
		Cu.M	310	1202.66	372825	I. N.012050 Pg. No. 2
2	PCC M15 in Levelling Course					
	Providing and laying cement concrete, up to plinth in retaining walls, walls (any thickness) including attached plasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, plain window sills, fillets etc, excluding the cost of cement and of shuttering, centring. in position cement concrete of specified proportion excluding cost of cement. 1:2:4(1cement : 2 sand: 4 graded stone aggregate 20 mm nominal size) (Cement 0.32MT/M³). For drains, Box bridges, Retaining Wall and Boundary Wall and Viaduct Portion.					
		Cu.M	3300	2434.16	8032728	I. N.031020 & 031023 Pg. No. 15
3	PCC M25 in Cutoff and Curtain Walls					
	Providing and laying in position machine Mixed, Machine vibrated and machine batched Design Mix mass Cement Concrete M25 grade (Cast-in-Situ) using 20 mm graded crushed stone aggregate and coarse sand of approved quality in drop and curtain wall and alike structures below bed level, including the cost of centring, shuttering and finishing complete as per drawing and technical specifications as directed by Engineer. Payment for Cement and reinforcement shall be paid extra. (Cement 0.403 MT/M ³ or as per approved design mix)					
		Cu.M	200	2093.25	418650	I. N.194020 Pg. No. 241
4	RCC M35 in RCC Work of Box Bridges					
A	Providing and laying in position machine mixed, machine vibrated and machine batched Design Mix Cement Concrete M-35 grade (Cast- in Situ). In bottom/top slab, side walls, toe wall and sumps haunch filling head walls or any other component using 20mm graded crushed stone aggregate and coarse sand of approved quality of cast in situ RCC box of size upto 5M (bigger inside dimension) including finishing, Admixture in recommended proportion (as per IS 9103), if approved in Mix design, to accelerate, retard setting of concrete, improve workability without impairing strenght and durability complete as per drawings and technical specifications as directed by Engineer in charge.Payment for cement,reinforcement and shuttering shall be paid extra. (Cement 0.422 MT/M ³ or as per approved design mix)					
		Cu.M	2000	2093.25	4186500	I. N.194010 Pg. No. 240
B	Centering and shuttering inclding strutting, propping etc. and removal of form for:In Bottom/top slab,side walls,toe wall and sumps haunch filling head walls or any other component.					
		SQ.M	3100	229.50	711450	I. N. 195030 & 195038 Pg. No. 241

Signature of tenderer(s)/Contractor(s)

NAGPUR METRO RAIL PROJECT (NMRP)

Sr No	Description as per USSOR	Unit	Qty.	Rate/ Unit	Amount	Reference (USSOR)
5	PCC M35 in Work of Bridges for Wearing Coat					
A	Providing and laying in position Cement Concrete M-35 grade excluding the cost for cement, centering and shuttering as per direction of Engineer In-Charge. (Cement 0.422 MT/M ³ or as per approved design mix)). For Wearing Coat Box Bridge and Viaduct Over Deck Slab					
		Cu.M	450	2326.01	1046705	I. N.031050 & 031051 Pg. No. 16
6	RCC M25 in RCC Work In Drain					
A	Providing and laying in position machine mixed, machine vibrated and machine batched Design Mix Cement Concrete M-25 grade (Cast- in Situ) using 20mm graded crushed stone aggregate and coarse sand of approved quality for the following reinforced cement concrete structural elements upto height of 10M from foundation top level, including finishing, using admixtures in recommended proportions (as per IS 9103), if approved in mix design to accelerate or retard setting of concrete and/or improve workability without impairing strength and durability complete as per specifications and direction of the Engineer in charge. Payment for cement, reinforcement and shuttering shall be paid extra. in Abutment, pier, wing wall and return walls of Mass cement concrete above rcc raft including finishing complete as per specifications and direction of engineer incharge. (Cement 0.403 MT/M ³ or as per approved design mix)					
		Cu.M	6000	2302.57	13815420	I. N.192060 & 192062 Pg. No. 235
B	Centering and shuttering including strutting, propping etc. and removal of form for: In Bottom/top slab, side walls, toe wall and sumps haunch filling head walls or any other component.					
		SQ.M	41500	229.50	9524250	I. N. 195030 & 195038 Pg. No. 241
7	Pre-Cast RCC M25 for Duct & RCC M35 in RCC Work of Boundary Wall Column and Pannels					
A	Providing, hoisting and fixing in position upto floor two level M25/M35 Grade precast RCC work including setting in cement mortar 1:3 (1 cement: 3 coarse sand) and finishing smooth with 6mm thick cement plaster 1:3 (1 cement: 3 fine sand) on exposed surfaces complete including cost of centering shuttering , finishing , Admixture in recommended proportion (as per IS 9103), to accelerate, retard setting of concrete, improve workability without impairing strength and durability, excluding cost of cement and steel reinforcement, as per approved plan & direction of Engineer in charge. Pre-Cast RCC M25 for Duct & RCC M35 in RCC Work of Boundary Wall Column and Pannels. (Cement 0.403/0.434 MT/M ³ or as per approved design mix)					
		Cu.M	11200	5763.97	64556464	I. N. 043010 & 043019 Pg. No. 22
8	RCC M35 in RCC Work of Retaining Wall and Boundary Wall					
A	Providing and laying in position machine mixed, machine vibrated and machine batched Design Mix Cement Concrete M-35 grade (Cast- in Situ) using 20mm graded crushed stone aggregate and coarse sand of approved quality for retaining wall, Reinforced Cement Concrete Structure element upto height of 10M from foundation top Level, including finishing, using Admixtures in recommended proportions (as per IS 9103), if approved mix design to accelerate or retard setting of concrete and/or improve workability without impairing strength and durability as per technical specifications as directed by Engineer in charge. Payment for cement, reinforcement and shuttering shall be paid extra. (Cement 0.422MT/M ³ or as per approved design mix)					
		Cu.M	7480	2302.75	17224570	I. N.192062 Pg. No. 235

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Sr No	Description as per USSOR	Unit	Qty.	Rate/ Unit	Amount	Reference (USSOR)
B	Centering and shuttering including strutting, propping etc. and removal of form for: Abutment, pier, wing, walls and return walls.					
		SQ.M	35750	229.50	8204625	I. N.195032 Pg. No. 241
9	RCC M35 CAST IN SITU PILES					
	Boring, providing and installing cast-in-situ single under reamed piles with bulb dia. of 2.5 times the pile diameter of any length in M 35 grade to carry a safe working load not less than specified including cost of boring with bentonite solution and pile to be embedded in pile cap etc all complete. Length of pile for payment shall be measured upto the bottom of pile cap. Payment for steel and cement shall be made separately.					
A	300mm dia piles	RMT	8400	2018.86	16958424	I. N.171620 &171621 Pg. No. 222
C	400mm dia piles	RMT	190	2210.73	420039	I. N. 171620 &171622 Pg. No. 222
10	Vertical Load Testing of piles					
	Vertical Load testing of piles in accordance with IS 2911 (Part IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification and the direction of engineer incharge					
A	Single pile upto 50MT capacity - Initial Test	Each	2	58075.00	116150	I. N. 171650 & 171651 Pg. No. 222
B	Single pile upto 50MT capacity - Routine Test	Each	4	116150.00	464600	I. N. 171650 & 171652 Pg. No. 222
11	RCC M35 in RCC Work Abutment and Pier					
A	Providing and laying in position machine mixed, machine vibrated and machine batched Design Mix Cement Concrete M-35 grade (Cast- in Situ) using 20mm graded crushed stone aggregate and coarse sand of approved quality for the abutment and Pier, Reinforced Cement Concrete Structure element upto height of 10M from foundation top Level, including finishing, using Admixtures in recommended proportions (as per IS 9103), if approved in mix design to accelerate or retard setting of concrete and/or improve workability without impairing strength and durability complete as per specifications and direction of the Engineer in charge. Payment for cement, reinforcement and shuttering shall be paid extra. (Cement 0.422 MT/M3 or as per approved design mix)					
		Cu.M	2750	2197.91	6044253	I. N. 192060 & 192061 Pg. No. 235
B	Centering and shuttering including strutting, propping etc. and removal of form for: In Bottom/top slab, side walls, toe wall and sumps haunch filling head walls or any other component.					
		SQ.M	1650	229.50	378675	I. N.195032 Pg. No. 241

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Sr No	Description as per USSOR	Unit	Qty.	Rate/ Unit	Amount	Reference (USSOR)
12	RCC M35 in RCC Work Abutment Cap, Pier Cap and Pedestals					
A	Providing and laying in position machine mixed, machine vibrated and machine batched Design Mix Cement Concrete M-35 grade (Cast- in Situ) using 20mm graded crushed stone aggregate and coarse sand of approved quality for the Abutment Cap, Pier Cap, Inspection Platforms and Pedestals over pier cap, Reinforced Cement Concrete Structure element upto height of 10M from foundation top Level, including finishing, using Admixtures in recommended proportions (as per IS 9103), if approved mix design to accelerate or retard setting of concrete and/or improve workability without impairing strength and durability as per technical specifications as directed by Engineer in charge. Payment for cement, reinforcement and shuttering shall be paid extra. (Cement 0.422 MT/M3 or as per approved design mix)					
		Cu.M	660	2407.23	1588772	I. N.192060 & 192063 Pg. No. 235
B	Centering and shuttering including strutting, propping etc. and removal of form for: In Bottom/top slab, side walls, toe wall and sumps haunch filling head walls or any other component.					
		SQ.M	840	273.40	229656	I. N.195033 Pg. No. 241
13	Elastomeric Bearing					
	Design, manufacturing, Supply and fixing in position elastomeric bearing pads under prestressed concrete girder, 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 approved firms and all fixing material, equipments, machineries, labour, taxes, loading, unloading, leading, lifting etc. complete. Rate include getting the drawing approved from Railway and cost of inspection during manufacturing from railway approved organization. Note : 1. The rate of finished item complete and paid only after fixing in position below the girder. 2. The volume shall be given in the drawing and no deduction shall be made for inserted steel plates etc.					
		Cu.CM	7559600	1.04	7861984	I. N.201040 Pg. No. 244
14	Providing and Fixing Strip Seal Expansion Joint					
	Providing and fixing in Position of standard preformed sealed and slab type or strip seal elastomeric type expansion joints for Railway Bridge or Road over bridges as per approved drawing and latest MOST/ IRC specifications. The rates are inclusive of supplying, fixing with contractors own materials for ex. inserts, bolts, socket tubes, neoprene sheet/cap etc, equipments, machineries, labour, all taxes, royalty, all lead and lifts, transport, testing, surface preparations, complete					
		RMT	250	15220.17	3805043	I. N.201051 & 201050 Pg. No. 245

Signature of tenderer(s)/Contractor(s)

NAGPUR METRO RAIL PROJECT (NMRP)

Sr No	Description as per USSOR	Unit	Qty.	Rate/ Unit	Amount	Reference (USSOR)
15	Load Test on Superstructure					
	Load testing of one or more spans of bridge as selected by the Engineer as per approved load test procedure following relevant IS/IRC/ Railway codes with contractor's labour, deflection measuring instruments, loading material, recording and analyzing the load testing result including all lead and lift, etc. complete as required. The rates are all inclusive and will be paid after load test is finished and girder is clear of the kentledges / loading material etc. The load shall be 1.25 times the stipulated design load Based on Design load & not span.					
	For Span design load upto 100 MT	Each	2	96135.36	192271	I. N. 201060 & 201061 Pg. No. 245
16	Prestressing H.T. steel cables					
	Providing, fabricating and fixing in position to exact design profile, prestressing HTS cables of all classification, made from low relaxation Strands conforming to IS-14268-1995 in prestressed concrete girder/slabs etc. including supplying. Cutting, making into cables with necessary spacers, colour coding, protecting with water soluble oil at all time, anchoring of cables, supplying and placing spiral corrugated type Galvanized metal steel ducts sheathing made up of cold rolled cold annealed (CRCA) mild steel conforming to IS 513 of required diameter/ thickness, vent pipe, placing, bending, routing, fixing, stressing and grouting of cable ducts with cement grout, Anchorage sets in required number with provision for future prestressing, if any, including all lead and lift with contractors own materials, labour, equipments, etc. complete as per drawing and specifications. Rate also includes covering anchorage pads with epoxy mortar of approved quality to avoid corrosion. Cement for grouting to be paid separately.					
		MT	110	109595.87	12055546	Item No. 201070 Pg. No. 245
17	Dry random rubble stone pitching					
A	Providing and laying Pitching with stone boulders weighing not less than 35Kg each with the 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) (Cement 0.125 MT/M3). For Box Bridge and Nallah Diversion Work					
		Cu.M	7900	2122.71	16769409	Item No. 221060 Pg. No. 252
18	Dry random rubble stone (600 mm thk.) as a filter media					
	Providing and laying of filter material As per RDSO Specifications underneath pitching in slopes complete as per drawing and Technical specification.					
		Cu.M	1500	1357.71	2036565	Item No. 221070 Pg. No. 252
19	Marking with paint "DANGER LEVEL", HFL on side of bridge					
	Painting the HFL and danger level marks, year of HFL on bridge abutment and piers with ready mixed paint as per standard in two coats over one coat of primer with all materials,labour,tools, scaffolding, all lead and lift etc. including writing complete.					
		Nos.	12	117.64	1412	Item No. 222230 Pg. No. 257

Signature of tenderer(s)/Contractor(s)

NAGPUR METRO RAIL PROJECT (NMRP)

Sr No	Description as per USSOR	Unit	Qty.	Rate/ Unit	Amount	Reference (USSOR)
20	PVC Pipe					
A	Providing weep holes by making suitable opening or drilling in existing Brick masonry/Plain/ Reinforced concrete abutment, wing wall/ return wall with 100 mm dia AC pipe, extending through the full width of the structure complete. (Cement 0.002 MT)					
		Metre	420	447.23	187837	I. N.222160 Pg. No. 255
21	Mild Steel Grill Gate					
	Structural steel work welded in built up sections trusses and framed work, girders, stagings, racks, etc including cutting, bending, straightening, hoisting, fixing in position, including applying a priming coat of approved steel primer, complete - upto 6m height above GL: In flats, plates , round or square bars					
		Kg.	940	73.30	68902	I. N.081030 & 081032 Pg. No. 72
22	Mild Steel Y Pole over Precast Columns					
	Structural steel work in single sections including cutting, bending, straightening, drilling, rivetting ,bolting, hoisting, fixing in position, including applying a priming coat of approved steel primer, complete - upto 6m height above GL: In RSJ, tees, angles and channels					
		Kg.	18600	69.85	1299210	I. N.081010 & 081011 Pg. No. 72
	FOR TREE PLANTATION					
23	Suppy of Avenue Plant					
A	Alstonia Scholaris of height above 180 cm in earthen pots of size 25 cm					
		each	1000	290.61	290610	I. N. 162062 Pg. No. 201
B	Azadirachta Indica (Neem) of height 120-135 cm in big polybag of size 25-30 cm					
		each	2000	75.73	151460	I. N. 162063 Pg. No. 201
C	Bottle Palm of height 150-165 cm in earthen pots of size 30 cm					
		each	1000	125.67	125670	I. N. 162066 Pg. No. 202
D	Delonix regia (Gulmohar) of height 135-150 cm in big polybag of size 25-30 cm					
		each	1000	52.50	52500	I. N. 162080 Pg. No. 202
24	Transplantation of marked Tree of various species and girth to the place shown by Engineering representative in the lead up to 1.5 Km. with all tools, plant, men and machinery and necessary preparation such as					
A	Preparation of earthen ball of tree roots of desired depth and diameter					
		Each	5000	322.90	1614500	I. N.161531 Pg. No. 197
B	Unloading, lifting and Transplanting tree from original place to new place directed by engineer including all arrangements, T&P, labour etc. for successfully completing the work (Tree height to be minimum 1.5 m)					
		Each	5000	771.24	3856200	I. N.161532 Pg. No. 197

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Sr No	Description as per USSOR	Unit	Qty.	Rate/ Unit	Amount	Reference (USSOR)
C	Excavating of pits of adequate size arranging loose soil, mixing of manure fertilizer insecticide etc. to ensure survival of the trees being transplanted maintain					
		Each	5000	161.45	807250	I. N.161533 Pg. No. 197
D	Maintenance of trees i.e. watering manuring soil heaping spray of insecticide etc. till the sprouting and establishment of trees up to 6 months.					
		Each/month	5000x6	263.85	7915500	I. N.161534 Pg. No. 197
	Total Cost =				213386621	

Signature of tenderer(s)/Contractor(s)

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Schedule "A"

Section - III : NS Items

Sr No	Description	Unit	Qty.	Rate/ Unit	Amount	Remark
1	Supply, Cutting, Bending binding of reinforcement steel					
	Supply, cutting, bending , binding of reinforcement / mild steel or deformed TMT bars including straightening uncoiling, cutting , bending, binding with GI wires and placing & fixing in position complete with contractor's own labour, material, steel and construction plants to the satisfaction of engineer including threading fixing in position with contractor's own bolts and nuts including cost of binding wire and all leads, lift & descents, crossing of tracks and all other obstructions etc. all complete as per approved drawing, specifications and as directed by the engineer (weight of binding GI wire 1.0 mm dia or no 18 SWG to be supplied by the contractor at his own cost will not be taken in the computation of the weight of the reinforcement steel). Note 1 :- Payment will be made on this basis of finished works . The rate shall be inclusive of all wastage, octroi, all kinds of taxes levied by local, municipal state government, central government, etc., authorities. amount @ 80% of the accepted rate may be paid against supply at site against indemnity bond in approved proforma, balance payment will be made after actual consumption as per the approved drawings.					
		MT	3500	59900.00	209650000	
2	Provision of Blanket Over Finished Formation					
	Provision of Blanket Over Finished Formation as per RDSO's latest specification and procedures, by supplying material of approved quality and specifications, blending/mixing in suitable proportions, spreading in layers not exceeding 300mm in loose state on top of embankment and cutting including mixing, breaking clods, watering/ drying to achieve optimum moisture content and compacting the same in each layer to achieve 98% of MDD as per heavy compaction test using contractor's own suitable roller to make the embankment to correct design profile with all contractor's labours, plants and tools, machinery fuel, taxes royalty etc complete to Railway's profile and dressing etc as per direction of Engineer-In-charge					
		Cu.M	57800	686.90	39702820	
2	Providing and Fixing Concertina Coil Fencing					
	Providing and Fixing Concertina Coil Fencing with punched tape concertina coil 600mm dia 10 metre openable length (total length 90M) having 50 nos rounds per 6metre length, upto 3metre height of wall with existing angle iron 'Y' shaped 3 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with GI staples and GI clips to retain horizontal including necessary bolt or GI barbed wire tied to angle iron all complete as per direction of Engineer Incharge with reinforced barbed tape (R.B.T.)/ Spring core (2.5mm thick) wire of high tensile strength of 165kg/MMsq with tape (0.52 mm Thick) and weight 43.478gm/metre (Cost of angle, CC blocks shall be paid separately)					
		RMT	14700	287.05	4219635	

NAGPUR METRO RAIL PROJECT (NMRP)

Sr No	Description	Unit	Qty.	Rate/ Unit	Amount	Remark
3	PSC M45 in I-Girders superstructure including deck slab Precast					
	<p>Providing M-45 grade concrete for prestressed Cement Concrete slab/Girders to cast-in casting yard and launching of girder including with necessary casting bed platform form work shuttering , centering, scaffolding and supporting system and including cast of transporating, placing, compaction by mechanical vibrator, adding chemical compound plasticizer / retarder, curing of concrete etc. complete including necessary lifting, lowering silding, levelling and erecting with all lead and lift as per technical specification with all contractors material, labour, tools & plants, equipment etc. complete. The rate is inclusive of cost of all material,fixing of HDPE pipe future HTS stand, labour plant and machinary with all lead and lift etc. complete but excluding the cost of cement, Reinforcement steel and HT Strands. Rate is also inclusive of placing girder at its final position over pier/ abutment for which no extra payment will be made. (Minimum Cement Content 450 kg/cum of concrete & Maximum Water Cement Ratio 0.35) .</p> <p>Note : 1. No constuction joint in slabs/ girder will be permitted .</p>					
		Cu.M	3700	15308.37	56640969	
4	PSC M45 in Box Girder superstructure Cast in Situ					
	<p>Providing M-45 grade concrete for prestressed Cement Concrete Box Girders cast in situ including with necessary casting bed platform form work shuttering , centering, scaffolding and supporting system and including cast of transporating, placing, compaction by mechincal vibrator, adding chemical compound plasticizer / retarder, curing of concrete etc. complete including necessary lifting, lowering sliding, levelling and erecting with all lead and lift as per techniacle specification with all contractors material, labour, tools & plants, equipment etc. complete. The rate is inclusive of cost of all material,fixing of HDPE pipe future HTS stand, laabour plant and machinary with all lead and lift etc. complete but excluding the cost of cement, Reinforcement steel and HT Strands. Rate is also inclusive of placing girder at its final position over pier/ abutement for which no extra payment will be made (Minimum Cement Content 450 kg/cum of concrete & Maximum Water Cement Ratio 0.35) .</p> <p>Note : 1. No constuction joint in slabs/ girder will be permitted .</p>					
		Cu.M	310	21502.04	6665634	
5	Load Test on Superstructure for PSC Box Girder					
	<p>Conducting Load Testing of Approx 45M span PSC Box Girder including making all arrangement and conducting satisfactory Load Testing of PSC Box Girder erected on position on the Piers at site, including arrangment for application of actual design serviceable vertical load of approx 500MT or as directed by Engineer Incharge, arrangement bfor measurement of deflection and rotations at various salient point of the Box girder and submitting a report. The details of placement, position, increament etc of load on the box girder and installation of measurement devices etc shall be paid as directed by the Engineer Incharge</p>					
		Each	1	1400000.00	1400000	
6	Extra for Lead of earthwork above initial free lead of 300M					
	Extra for Lead of earthwork above initial free lead of 300M for item no. 1 and 2 of Section-I as directed by the Engineer Incharge					
A	0.3 to 1 Km	Km	10000.00	10.00	100000	
B	For Every one Km or part thereof upto a Max lead of 20 Km	Km	50000x10Km	8.00	4000000	
	Total Cost =				322379058	

Signature of tenderer(s)/Contractor(s)

Name of Work : - Construction of bridges (including Rail-Over-Bridge over Concor siding at Khapri), retaining walls, boundary walls and earthwork in Depot and at-Grade Section between Ch. 14200 - Ch. 21504.5 in Airport-Khapari-Mihan depot section on North – South Corridor of Nagpur Metro Rail Project “

Schedule "A"

Section - IV : SUPPLY ITEM (Cement)

Sr No	Description	Unit	Qty.	Rate/ Unit	Amount	
1	Supply of Ordinary Portland cement of approved quality					
	Supply of Ordinary Portland cement of approved quality and make conforming to is 8112/12269/455 (43/53 garde) for work pertaining to all items under this tender, where applicable, including all handling, loading, unloading, transportation, leads, lifts, etc.complete including necessary storage facilities. Note 1 :- Payemnt will be made on this basis of finished works after use in concrete. The rate shall be inclusive of all wastage, octroi, all kinds of taxes leviabel by local, municipal, state government, central government, etc., authorities. Note 2 :- The payment will be done for actual quantity used in work. payment will be made as per standard consumption and according conditions of contract and standard Specification.					
		MT	18200	5800.00	105560000	

Signature of tenderer(s)/Contractor(s)

NAGPUR METRO RAIL PROJECT (NMRP)

Name of Work : - Construction of bridges (including Rail-Over-Bridge over Concor siding at Khapri), retaining walls, boundary walls and earthwork in Depot and at-Grade Section between Ch. 14200 - Ch. 21504.5 in Airport-Khapari-Mihan depot section on North – South Corridor of Nagpur Metro Rail Project “

Schedule "A"

Section - V : Any Items not covered in Sections I, II, III, IV

Sr No	Description	Unit	Qty.	Rate/ Unit	Amount	
1	Any Othes Items					
	Any other Items which are not covered in the above Sections I, II, III, IV shall be operated as per UNIFIED SCHEDULE OF RATES (USSOR) Engineering department 2011 of Central Railway with upto date correction slips.					
		L.S.	Rs.15000000	AT PAR	15,000,000	

Signature of tenderer(s)/Contractor(s)