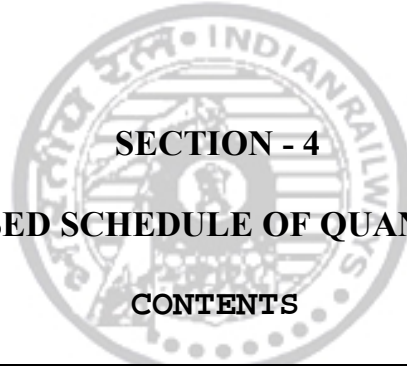


**SECTION - 4**

**REVISED SCHEDULE OF QUANTITIES**





**SECTION - 4**  
**REVISED SCHEDULE OF QUANTITIES**  
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**Updated/Revised Schedule of Quantities**

**Name of Work: Execution of Civil Engineering works within Noapara Car Depot Complex of PSC viaduct and Station Building in connection with Extension of Metro Railway from Dum Dum to Baranagar.**

**RATE SHEET****TENDERER SHOULD QUOTE THEIR RATES HERE UNDER**

Sl. No.	Schedule	Basic value (Rs.)	Quoted Rates in figures	Quoted Rates in words
1	Schedule - A (Surface Track and Ramp Works)	18233333.94	_____ % above/below/at par over basic value.	_____ % above/below/at par over basic value.
2	Schedule - B (Foundation and Sub-structure Works)	125592065.00	_____ % above/below/at par over basic value.	_____ % above/below/at par over basic value.
3	Schedule - C (Super-structure Works)	162955314.00	_____ % above/below/at par over basic value.	_____ % above/below/at par over basic value.
4	Schedule - D (Station Foundation and Sub-structure Works)	57774553.00	_____ % above/below/at par over basic value.	_____ % above/below/at par over basic value.
5	Schedule - E (Station Finishing Works)	73638176.50	_____ % above/below/at par over basic value.	_____ % above/below/at par over basic value.
6	Schedule - F (Supply of Cement)	90860000.00	_____ % above/below/at par over basic value.	_____ % above/below/at par over basic value.
7	Schedule - G (Supply of Reinforcing Steel)	335073686.00	_____ % above/below/at par over basic value.	_____ % above/below/at par over basic value.
8	Schedule - H (Miscellaneous Works)	2780000.00	_____ % above/below/at par over basic value.	_____ % above/below/at par over basic value.
	Total = Rs.	866907128.44	Say Rs. 86.69 Cr.	

**Signature of The Tenderer.**

**Schedule - A. Surface Track & Ramp.**

<b>It No.</b>	<b>Description of work</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate in Rs.</b>	<b>Amount in Rs.</b>
A1	Earthwork in Excavation in foundation of retaining walls, raft for BLT etc. in all conditions & classifications of soil including all lead, lift, tools & plants, shoring arrangements, dewatering labour, providing required slope/berm as per site condition, including backfilling of useful excavated soil (except Black cotton soil) and disposing off the balance excavated soil from the site of work as per the instruction of Engineer-in-charge.	Cum	1400.00	144.00	201600.00
A2	Providing and placing in position of cement concrete of mix M-15 or equivalent 1:2:4 (1 cement:2 coarse sand: and 4 coarse aggregates 20mm down graded) in foundation base concrete, leveling course etc. as specified in drawing including the cost of centering, shuttering and dewatering with all contractor's material (except cement), labour, lead, lift, taxes, royalty, octroi etc. complete. Cement will be paid separately as per item No. 1 of Schedule 'F'.	Cum	720.00	3201.00	2304720.00
A3	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of M-35 grade in raft, retaining wall etc. with all contractor's material (except cement and reinforcement steel), graded hard stone aggregates of 20mm to 6mm size and sand of approved quality for reinforced cement concrete structural elements, including cost of all labour, materials (except cement and reinforcing steel), fabricating/cutting, bending, binding and placing in position steel reinforcement as per approved drawings including cost of binding wire, centering, shuttering, finishing, dewatering and admixtures in recommended proportions. (as per IS: 9103) to accelerate, retard setting of concrete improve workability without impairing strength and durability with all lead and lift as per direction of Engineer-in-charge. Cement will be paid separately as per item No.1 of schedule "F". Reinforcing steel will be paid separately as per item No.1 of schedule "G".	Cum	3500.00	4214.00	14749000.00
	Note: Rates for concreting are inclusive of surface dewatering.				
A4	Earthwork in filling in bank with contractor's earth of approved quality except black cotton soil including procurement, loading in contractor's own transport and leading the same to work site, unloading, breaking clods and spreading the same in layers in loose state and making the bank to correct profile with mechanical compaction with contractor's own compacting machinery in layers of 300mm loose upto the required Degree of Compaction (i.e. minimum 98% of Maximum Dry Density) including watering, dressing of surfaces, with all materials, labour, lead, lift, tools & plants, taxes, royalties, octroi, etc. complete including cleaning of site, uprooting of trees, bushes, vegetation and all incidental works as per specifications and instruction of Engineer-in-charge complete.	Cum	3300.00	226.00	745800.00



It No.	Description of work	Unit	Qty.	Rate in Rs.	Amount in Rs.
	Note: 90% of the rate is payable for the Earthwork done in partly completed embankments. The balance 10% of the rate is payable after final completion of the earthwork in embankment including dressing of slopes and turfing.				
A5	Earthwork in bank in filling with earth of approved quality except black cotton soil obtained from Item No. A1 above and also from Noapara Railway premises within a lead of 1.5 Kms including excavation wherever required as directed by Engineer including loading the earth in contractor's own transport and leading the same to work site, unloading, breaking clods and spreading the same in layers in loose state and making the bank to correct profile with mechanical compaction with contractor's own compacting machinery in layers of 300mm loose upto the required Degree of Compaction (i.e. minimum 98% of Maximum Dry Density) including watering, dressing of surfaces, with all materials, labour, lead, lift, tools & plants, taxes, etc. complete including cleaning of site, uprooting of trees, bushes, vegetation and all incidental works as per specifications and instruction of Engineer-in-charge complete.	Cum	1400.00	137.00	191800.00
	Note: 90% of the rate is payable for the Earthwork done in partly completed embankments. The balance 10% of the rate is payable after final completion of the earthwork in embankment including dressing of slopes and turfing.				
A6	Dismantling of existing points & crossing 90R/52Kg/60Kg or any other type including leading of rails, tongue rails, stock rails, stretcher bar, check rails, block points & crossing sleepers and all P-Way fittings materials etc. and leading the same to any store as directed and stack the same properly with all lead, lift, ascend, descend etc. by all contractors labour, tools & plants equipments etc. as advised by site-in-charge.	Per Set	4.00	7579.86	30319.44
	1 in 8.5				
A7	Driling / Making holes in various type and / or section of rails outside / in running track as directed by Engineer / Engineer's representative with all contractor's labour, tools & plants, equipment etc.	Each	50.00	45.37	2268.50
A8	Cutting of rails of various type and / or section outside track and / or in running track with all contractor's labour, machinery, equipment etc. i) 60Kg/52 Kg/90R	Each	50.00	93.00	4650.00
A9	Slewing of track / realignment of curve to achieve desired alignment, gause, level etc. complete in all respect, upto 300mm, if required.	M	100.00	31.76	3176.00
<b>Total of Schedule - 'A' = Rs.</b>					<b>1823333.94</b>



**Schedule - B: FOUNDATION AND SUB-STRUCTURE WORKS:**

Srl No.	Description of work	Unit	Approx. Quantity	Basic Rate (Rs)	Amount in Rs.
B1	Earthwork in Excavation in foundation of pier footings, pile caps, retaining walls etc. in all conditions & classifications of soil including all lead, lift, tools & plants, shoring arrangements, dewatering labour, providing required slope/berm as per site condition, including backfilling of useful excavated soil (except Black cotton soil) and disposing off the balance excavated soil from the site of work as per the instruction of Engineer-in-charge.	Cum	11950.00	144.00	1720800.00
B2	Supply and filling fine sand/silver sand including watering ramming consolidating and dressing complete in foundations, side/back filling of pile caps, footings, retaining wall etc. in layers. Rate includes all labour, materials, lead, lift, taxes, tools & plants, taxes, royalties, octroi etc. complete.	Cum	500.00	485.00	242500.00
B3	Construction of cast-in-situ bored piles of 1000 mm dia. with RCC of M25 grade with contractor's hard graded stone aggregate of 20mm to 6mm size and sand of approved quality including boring for the piles through all types/conditions of soils to the required depth by boring/chiseling through all types of obstructions upto founding level and fabricating the treated reinforcement bars, lowering and placing in position, concreting, removal/disposal of spoils/slush etc. without obstruction to work and as directed by Engineer with all leads, lifts, labour, pumping, bailing, etc. complete, as per Metro Railway Specifications. Rate will include all stacking, preparatory works in forming and maintaining of working platform, approach roads, earthwork, handling of cement and reinforcement steel etc., with contractor's own men and materials including timely removal thereof to the satisfaction of the Engineer, providing stacking places, mobilization and transferring/ reinstalling of contractor's piling equipments/accessories etc.				
	from one location to another including any power/service connections as required and as ordered by Engineer. Cement will be paid separately as per item No.1 of schedule "F". Reinforcing steel will be paid separately as per item No.1 of schedule "G".	Rm.	12000.00	3872.000	46464000
	Note: (i)Nothing extra shall be paid for empty boring or for boring with contractor's bentonite slurry, or for boring through all types of obstructions like boulders, old foundation, steel items, blocks of wood etc including disposal of spoils away from the site.				
	(iii)No request for lump sum payment/mobilization/installation charges will be considered and tenderer/contractor has to merge this element in his rate only.				



Srl No.	Description of work	Unit	Approx. Quantity	Basic Rate (Rs)	Amount in Rs.
	(iv)5% of payments for the piles from on account bills will be withheld. Such withheld amounts will be released only on satisfactory removal of island/working platform/ cofferdams/spoils permanently from locations as certified by the Engineer.				
	(v) Mode of measurement will be as per Para 3.9.8 of Section- 3 .				
	(vi) For deciding the founding level of piles, Standard Cone Penetration Test will be conducted, as per the discretion of Engineer-in-charge.				
	(vii)Integrity test of piles by suitable non destruction testing methods will be conducted on all the piles through a separate agency to be fixed by Metro Railway. This will include testing of upto 10% piles by cross hole ultrasonic monitor. However, cost of all the preparatory arrangements to be provided at the time of casting of piles and rendering necessary assistance in properly carrying out of these tests subsequently shall be included in the contractor's price.				
B4	Dismantling of the laitance concrete upto cut off level as directed by Engineer and disposing off the debris away from the site of work with all loading, leading and unloading etc. complete including all contractor's labour, tools & plant/machinery etc.	Cum	800.00	616.00	492800.00
B5	Supply & fabrication including placement in position of permanent liner using contractor's 6mm (six mm) thick MS plate to the required depth for the piles which is to be decided by the Engineer-in-charge. Rate will include all charges for procurement, storage, transportation of MS plates, fabrication/ erection, driving/cutting at the required level at top, including all labour/materials handling etc. complete, as directed by Engineer.	RM	2500.00	9373.00	23432500.00
	Notes:				
	i)Engineer's decision in the matter of permanent liner (i.e. casing pipe depth required for each pile & thickness of liner) shall be final & binding on the contractor.				
	ii)In case the Engineer specifically orders use of thicker plate the payment will be on prorata basis over the accepted rate for the above item.				
	iii)Payment will be for the actual length of lining finally provided for below capping slab.				
	(iv)No extra payment will be made for the additional reinforcing straps to be provided at the bottom of the liner and sides. Additional steel required for this purpose has to be taken into consideration while quoting rates.				



Srl No.	Description of work	Unit	Approx. Quantity	Basic Rate (Rs)	Amount in Rs.
B6	Vertical load testing (initial load test) of single pile of 1000mm dia as per IS: 2911 including construction of test pile cap and dismantling the same after test with all contractor's labour, kentledges/materials/ equipments, loading, unloading transport etc. complete as directed by Engineer. Payment of test pile will be made under item No. B3 above.	Each	2.00	148623.00	297246.00
B7	Carrying out routine vertical load testing of pile of 1000mm dia upto at least 1.5 times the working load capacity of each pile as per IS: 2911 or as specified and as directed by Engineer including construction of test pile cap and dismantling the same after test with all contractor's labour, kentledges/materials/ equipments, loading, unloading, transport etc. complete.	Each	4.00	85092.00	340368.000
B8	Lateral load testing of single pile, including construction of test pile cap and dismantling the kentledges/materials/equipments, loading, unloading, transport etc. complete as directed by Engineer. The test will be conducted on any working pile to be decided by the Engineer.	Each	3.00	33437.00	100311.00
B9	Providing and placing in position of cement concrete of mix M-15 or equivalent 1:2:4 (1 cement:2 coarse sand: and 4 coarse aggregates 20mm down graded) in foundation base concrete, leveling course etc. as specified in drawing including the cost of centering, shuttering and dewatering with all contractor's material (except cement), labour, lead, lift, taxes, royalty, octroi etc. complete. Cement will be paid separately as per item No. 1 of Schedule 'F'.	Cum	850.00	3201.00	2720850.00
B10	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of M-35 grade in pile cap, raft, retaining wall etc. with all contractor's material (except cement and reinforcement steel), graded hard stone aggregates of 20mm to 6mm size and sand of approved quality for reinforced cement concrete structural elements, including cost of all labour, materials (except cement and reinforcing steel), fabricating/cutting, bending, binding and placing in position steel reinforcement as per approved drawings including cost of binding wire, centering, shuttering, finishing, dewatering and admixtures in recommended proportions. (as per IS: 9103) to accelerate, retard setting of concrete improve workability without impairing strength and durability with all lead and lift as per direction of Engineer-in-charge. Cement will be paid separately as per item No.1 of schedule 'F'. Reinforcing steel will be paid separately as per item No.1 of schedule 'G'.	Cum	9035.00	4214.00	38073490.00



Srl No.	Description of work	Unit	Approx. Quantity	Basic Rate (Rs)	Amount in Rs.
	Note: Rates for concreting are inclusive of surface dewatering.				
B11	Providing and laying in position RCC M-35 for construction of pier, pier shaft, pier head etc. from 3m below ground level upto approx. 10m above G.L. cast-in-situ, with contractor's material (except cement and reinforcement), stone aggregate of 20mm to 6mm size and coarse sand of approved quality including form work, mixing placing, vibrating compacting and curing with all lead, lift, labour and materials (except cement and reinforcing steel) etc. Rate includes for straightening, decoiling, cutting, bending, cranking, binding, welding as necessary, placing and fixing in position steel reinforcement including angles/pins provided for the approved welded joints at and at all heights and depths above and below finished ground level. Cement will be paid separately as per item No.1 of schedule 'F'. Reinforcing steel will be paid separately as per item No.1 of schedule 'G'.	Cum	2400.00	4878.00	11707200.00
<b>Total of Schedule 'B'</b>					<b>125592065.00</b>



**Schedule - C: SUPERSTRUCTURE WORKS**

Srl No.	Description of work	Unit	Approx. Quantity	Basic Rate (Rs)	Amount in Rs.
C1	Casting of RCC M-35 for construction of girders and deck slab, cross girder, kerb, footpath and parapet wall upto a height of 10m from GL cast-in-situ, with contractor's cement, stone aggregate of 20mm to 6mm size and coarse sand of approved quality including form work, mixing, placing, vibrating compacting and curing with all lead, lift, labour and materials etc. Rate includes cost of mixing in right proportion super plasticizer eg. FORSOC/ CICO/ SIKA to increase workability of concrete, cutting, bending, binding & placing reinforcement bars in position as per approved drawings complete as directed by Engineer. Cement will be paid separately as per item No.1 of Schedule 'F'. Reinforcing steel will be paid separately as per item No.1 of schedule 'G'.	Cum	4430.00	6345.00	28108350.00
C2	Casting of prestressed concrete girders of 'I' section for Superstructure for Elevated Structure as per Metro Railway's approved drawing and design of M-45 grade concrete per span to cater both Up and Down line tracks as per the specification and approved drawings in conjunction with other Special Conditions of Contract, General Conditions of Contract specified hereunder and elsewhere in the tender documents. The cost also includes steel form work including side and vertical supports complete in all respects. No extra payment will be made for form work required for this item.	Cum	5500.00	12390.00	68145000.00
	The scope of the work under this item consists of: -				
	i)Casting of PSC 'I' section girder with contractor's cement, graded hard stone aggregate of 20 mm to 6 mm size and sand of approved quality as per the plans on casting bed in casting yard or on firm and unyielding supports erected in situ. the casting bed is to be made by the contractor at his own cost for which no extra payment will be made.				
	ii)Cutting, bending, binding, placing in position and tying of reinforcement bars as per the drawing and details furnished. Thermo Mechanically Treated (TMT) Reinforcement steel will be paid separately as per item No.1 of schedule 'G'.				
	iii)Laying in position of pre-stressed wires/strands with approved cable sheathing as per cable profile furnished including securing the profile by proper tying arrangements and chairs as the case may be, positioning and securing form work/shuttering panels for doing concreting work, in one single stage or in stages as specified in drawings, concreting through placer, concrete buckets or tremie pipes using contractor's own concrete pump including provision of form/needle vibrators for ensuring desired compaction.				



Srl No.	Description of work	Unit	Approx. Quantity	Basic Rate (Rs)	Amount in Rs.
	iv) Only Design mix concrete produced in an Automatic Batching Plant or any other mechanized plant with the approval of the Engineer should be used for the PSC 'T' Section Girders.				
	v) For details of stage payments refer clause 2.20 of Section-2 under special condition of contract. This facility may be taken into consideration by the tenderer in quoting his rates.				
	vi) Admixture eg. FORSOC/CICO/SIKA shall be used as clause 3.11.8 of section 3.				
C2 (i)	Extra over Item No. C2 above in case M50 grade of concrete is used in lieu of M45 grade concrete. (Note: The item No. C2(i) while may be operated but will not be considered for the purpose of evaluating inter-se merit position of tenderers.)	Cum	5500.00	300.00	
C3	Supplying, laying and providing cables of low relaxation pre-stressing wires/strands to BIS Specification along with cable sheathing and anchorages of approved make and quality including stressing the pre-stressing wires/strands in single or multiple stages and in one/both side stressing as per the approved drawings and specification, anchoring, grouting etc., as per requirement with contractor's equipments and machinery etc.. The rate quoted shall also cater for sealing end blocks of girder with epoxy mortar after pre-stressing operation.	MT	300.00	111076.00	33322800
	The scope of the work under this item consists of: -				
	i) Laying in position of pre-stressed wires/strands with approved cable sheathing as per cable profile furnished including securing the profile by proper tying arrangements and chairs as the case may be, positioning and securing form work/shuttering panels for doing concreting work, in one single stage or in stages as specified in drawings, concreting through placer, concrete buckets or tremie pipes including provision of form/needle vibrators for ensuring desired compaction.				
	ii) Payment will be made basing on the actual quantity of pre-stressed wires/strands finally used in the 'T' section.				
C4.	End treatment of all finished exposed ends and surface of PSC girder other than anchorage by three coats of epoxy as per the methodology given in the Clause No. 3.19.8 of Section - 3 or by any other similar epoxy (including specification and methodology for application) as approved by Engineer in Charge.	Per Span	70	11090.00	776300.00
	Note: (i) For the purpose of this tender, a span comprises of all the girders from one pier to the next for a double line track. (ii) Where the girders are only for a single line, Item No. C4 above will be considered as half a span.				



Srl No.	Description of work	Unit	Approx. Quantity	Basic Rate (Rs)	Amount in Rs.
C5.	Transporting the 'I' girder (any span) cast in the casting yard through trailer, crane, gantries or deck trolleys to the launching girder system at the placement location, aligning the girder including positioning over Elastomeric bearings to be fixed on the trestle beam duly forming top groove and mat as required as per Clause 3.19.8 of Section – 3.	Per Girder.	250.00	61206.00	15301500.00
C6.	Providing firm and unyielding staging over the ground between piers of sufficient stiffness and strength so as to withstand the all anticipated loads in connection with construction of PSC 'I' girders etc. as approved by the Engineer for casting PSC 'I' girders of all span in-situ including all works for aligning trestle beam in its final position on elastomeric bearings duly top forming groove and mat as required as per Clause 3.19.8 of Section-3.	Per Girder.	30.00	26825.00	804750.00
C7.	Testing of completed pre-stressed concrete girder (on both Up and down track) as per clause 18 of IRS Concrete Bridge code and as directed by Engineer at site. Rate includes all charges for labour, materials, Kentledges, testing rigs, instruments and equipment's required for the test, handling, transporting and subsequent dismantling/ unloading Kentledges, on 20 m nominal span.	Each	3.00	1113178.00	3339534.00
	<b>Note:</b>				
	i)The contractor should be prepared to carryout the load test on spans longer or shorter than the 20 m nominal spans also, if ordered by the Engineer at site. In such cases, payment will be modified and will be proportional to the nominal span. For example, if the contractor is ordered to carryout load test on 30m nominal span girders, then the payment will be 30/20 times the rate indicated in this item. (ii) For the purpose of this tender, a span comprises of all the girders from one pier to the next for a double line track. (iii) Where the girders are only for a single line, Item No. C7 above will be considered as half a span.				
C8	Providing UPVC pipes and Spouts				
(a)	Providing and fixing drainage spouts made out of 75 mm dia UPVC pipes (working pressure of 6 kg/cm <sup>2</sup> ) conforming to IS: 4985 including specials, all leads, lifts etc complete as per drawings and as ordered by the Engineer at site.	Each	1600.00	151.00	241600.00
(b)	Providing and fixing at pier locations 140mm to 160mm dia UPVC pipes (working pressure 6 kg/cm <sup>2</sup> ) conforming to IS: 4985 with top fitted heavy type of C.I. grating of 200x200mm in plan including door bends, all leads and lifts etc complete as per drawing and as ordered by the Engineer at site.	Each	160.00	2710.00	433600.00



Srl No.	Description of work	Unit	Approx. Quantity	Basic Rate (Rs)	Amount in Rs.
C9	Supplying, fitting, fixing in position true to line and levels approved Elastomeric (Neoprene) Bearing as per IRC Code (83 Part-I) approved specification and drawings and approved by the Engineer-in-charge and tested by RDSO/RITES including all lead, lift, ascend, descend, crossing of tracks, making of mortar/epoxy bed over sub-structure complete including its installation and testing.	Cum	4.00	2099845.00	8399380.00
C10	Providing and fixing hand railing over the parapet of PSC box Girder including cutting, hoisting, welding/bolting, fixing in position etc using MS bars of 16mm dia with threaded ends embedded in parapet concrete, MS plate and flats, 40 NB nominal bore heavy class pipe etc including provision of applying a priming coat of approved steel primer followed by two coats of synthetic enamel paint of shade and pattern approved by the Engineer at all locations complete as per approved drawing, specifications at clause 3.22 of Section – 3 and as directed by the Engineer.	Rm.	2500.00	1633.00	4082500.00
<b>Total of Schedule-'C' = Rs.</b>					<b>16295314.00</b>



**Schedule - D: STATION (FOUNDATION AND SUB-STRUCTURE) WORKS:**

Srl No.	Description of work	Unit	Approx. Quantity	Basic Rate (Rs)	Amount in Rs.
D1	Earthwork in Excavation in foundation of pier footings, pile caps, retaining walls etc. in all conditions & classifications of soil including all lead, lift, tools & plants, shoring arrangements, dewatering labour, providing required slope/berm as per site condition, including backfilling of useful excavated soil (except Black cotton soil) and disposing off the balance excavated soil from the site of work as per the instruction of Engineer-in-charge.	Cum	16000.00	121.00	1936000.00
D2	Supply and filling fine sand/silver sand including watering ramming consolidating and dressing complete in foundations, side/back filling of pile caps, footings, retaining wall etc. in layers. Rate includes all labour, materials, lead, lift, taxes, tools & plants, taxes, royalties, octroi etc. complete.	Cum	500.00	408.00	204000.00
D3	Construction of cast-in-situ bored piles of 750mm dia with RCC of M25 grade with contractor's hard graded stone aggregate of 20mm to 6mm size and sand of approved quality including boring for the piles through all types / conditions of soils to the required depth by boring/chiselling through all types of obstructions up to founding level and fabricating the reinforcement bars, lowering and placing in position, concreting, straightening, cutting, bending, binding and lowering in position steel reinforcement including cost of binding wire (Reinforcement steel will be paid separately vide Item No. 1 of Schedule 'H'. ) dewatering, removal/diposal of spoils/slush etc. away from the site of work without obstruction to work and as directed by Engineer with all leads, lifts, labour, pumping, bailing out water, etc. complete, as per Metro Railway Specifications and approved drawings. Rate also includes all stacking, preparatory works in forming and maintaining of working platform, approach roads, earthwork, handling of cement and reinforcement steel etc. with contractor's own men and materials (except cement and reinforcing steel which shall be paid separately against Item No. 1 of Schedule 'F' and 'G' respectively) including timely removal thereof to the satisfaction of the Engineer, proving stacking places, mobilization and transferring / reinstalling of contractor's pilling equipments/accessories etc. from one location to another including any power/service connections as required and as ordered by Engineer.	RM	8000.00	1429.00	11432000.00
	Notes :				
	i) Nothing extra shall be paid empty boring with contractor's bentonite slurry in case of fully lined piles and for boring through all types of obstructions like boulders, old foundations, steel items, blocks of wood etc., including disposal of spoils away from the site.				



Srl No.	Description of work	Unit	Approx. Quantity	Basic Rate (Rs)	Amount in Rs.
	ii) All the spoils from the boring soil/rock to be cleared from railway premises and should be disposed off in suitable places outside the Rly jurisdiction with due permission, If required, and as directed by Engineer. It is the responsibility of the tenderer/contractor to cater for multiple handling of the spoils and to arrange suitable dumping places.				
	iii) No request for lump-sum payment/mobilization/installation charges will be considered and tenderer/contractor has to marge this element in his rate only.				
	iv) 5% of payment for the piles from on account bills will be withheld. Such withheld accounts will be released only on satisfactory removal of island/working platform/cofferdams/sopils permanently from locations as certified by the Engineer.				
	v) Mode of measurement will be as per special specifications.				
	vi) For deciding the founding level of pile, Standard Penetration Test will be conducted as per the discretion of Engineer-in-Charge.				
	vii) Integrity test of piles by suitable non-destructive testing methods will be conducted on the piles through a separate agency to be fixed by Metro Railway. This will include testing of up to 10% piles by cross hole ultrasonic monitor. However, cost of all preparatory arrangements to be provided at the time of casting of piles and rendering necessary assistance in properly carrying out these tests subsequently shall be included in the contractor's price.				
D4	Dismantling of the laitance concrete upto cut off level as directed by Engineer and disposing off the debris away from the site of work with all loading, leading and unloading etc. complete including all contractor's labour, tools & plant/machinery etc.	Cum	300.00	616.00	184800.00
D5	Supply & fabrication including placement in position of permanent liner using contractor's 6mm (six mm) thick MS plate to the required depth for the piles which is to be decided by the Engineer-in-charge. Rate will include all charges for procurement, storage, transportation of MS plates, fabrication/ erection, driving/cutting at the required level at top, including all labour/materials handling etc. complete, as directed by Engineer.	RM	2000.00	9373.00	18746000.00
	Notes:				
	i) Engineer's decision in the matter of permanent liner (i.e. casing pipe depth required for each pile & thickness of liner) shall be final & binding on the contractor.				
	ii) In case the Engineer specifically orders use of thicker plate the payment will be on prorata basis over the accepted rate for the above item.				
	iii) Payment will be for the actual length of lining finally provided for below capping slab.				



Srl No.	Description of work	Unit	Approx. Quantity	Basic Rate (Rs)	Amount in Rs.
	(iv) No extra payment will be made for the additional reinforcing straps to be provided at the bottom of the liner and sides. Additional steel required for this purpose has to be taken into consideration while quoting rates.				
D6	Vertical load testing (initial load test) of single pile of 750mm dia as per IS: 2911 including construction of test pile cap and dismantling the same after test with all contractor's labour, kentledges/materials/ equipments, loading, unloading transport etc. complete as directed by Engineer. Payment of test pile will be made under item No. E3 above.	Each	2.00	148623.00	297246.00
D7	Carrying out routine vertical load testing of pile of 750mm dia upto at least 1.5 times the working load capacity of each pile as per IS: 2911 or as specified and as directed by Engineer including construction of test pile cap and dismantling the same after test with all contractor's labour, kentledges/materials/ equipments, loading, unloading, transport etc. complete.	Each	4.00	85092.000	340368.000
D8	Lateral load testing of single pile, including construction of test pile cap and dismantling the kentledges/materials/equipments, loading, unloading, transport etc. complete as directed by Engineer. The test will be conducted on any working pile to be decided by the Engineer.	Each	2.00	33437.00	66874.00
D9	Providing and placing in position of cement concrete of mix M-15 or equivalent 1:2:4 (1 cement:2 coarse sand: and 4 coarse aggregates 20mm down graded) in foundation base concrete, leveling course etc. as specified in drawing including the cost of centering, shuttering and dewatering with all contractor's material (except cement), labour, lead, lift, taxes, royalty, octroi etc. complete. Cement will be paid separately as per item No. 1 of Schedule 'F'.	Cum	315.00	3331.00	1049265.00
D10	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of M-35 grade in pile cap, raft, retaining wall etc. with all contractor's material (except cement and reinforcement steel), graded hard stone aggregates of 20mm to 6mm size and sand of approved quality for reinforced cement concrete structural elements, including cost of all labour, materials (except cement and reinforcing steel), fabricating/cutting, bending, binding and placing in position steel reinforcement as per approved drawings including cost of binding wire, centering, shuttering, finishing, dewatering and admixtures in recommended proportions. (as per IS: 9103) to accelerate, retard setting of concrete improve workability without impairing strength and durability with all lead and lift as per direction of Engineer-in-charge. Cement will be paid separately as per item No.1 of schedule 'F'. The reinforced steel shall be separately vide item No. 1 of Schedule 'G'.	Cum	2000.00	4214.00	8428000.00



Srl No.	Description of work	Unit	Approx. Quantity	Basic Rate (Rs)	Amount in Rs.
	Note: Rates for concreting are inclusive of surface dewatering.				
D11	Providing and laying in position RCC M-35 for construction of Column, Plinth beam, beam, pier shaft, pier head etc. from 3m below ground level upto approx. 10m above G.L cast-in-situ, with contractor's material (except cement and reinforcement), stone aggregate of 20mm to 6mm size and coarse sand of approved quality including form work, mixing placing, vibrating compacting and curing with all lead, lift, labour and materials (except cement and reinforcing steel) etc. Rate includes for straightening, decoiling, cutting, bending, cranking, binding, welding as necessary, placing and fixing in position steel reinforcement including angles/pins provided for the approved welded joints at and at all heights and depths above and below finished ground level. Cement will be paid separately as per item No.1 of schedule 'F' and the reinforcing steel will be paid separately as per item No. 1 of Schedule 'G'.	Cum	3000.00	5030.00	15090000.00
<b>Total of Schedule 'D' = Rs.</b>					<b>57774553.00</b>



**Schedule - E. STATION FINISHING WORKS:**

Sl No	Description of works	Unit	Approx Qty	Basic Rate in Rs	Amount in Rs
E1	Supplying, constructing one or more brick thick brickwork using 2nd class bricks conforming to IS: 1077 and having minimum compressive strength of 70 kg/sq cm with cement sand mortar (1:6) in platform, superstructure of building, at all heights above/below plinth level including fair cutting, waste, bonding, plumbing, lining, leveling, flushing, raking joints, including providing pockets for pipe entry and filling the same with brick masonry, scaffolding and curing, all as per drawings, specifications and directions of the Engineer-in-Charge including all materials such as cement, brick, sand, tools, plant and labour complete.	Cum.	1000.00	3171.00	3171000.00
E2	Supplying and constructing brickwork of half-brick thickness using 2nd class bricks, conforming to IS:1077 with chicken wire mesh at every third layer and having minimum compressive strength of 70 kg/sq cm with (1:4) cement sand mortar at all heights including fair cutting, waste, bonding, plumbing, lining, levelling, raking joints, scaffolding and curing, all as per drawings, specifications and directions of the Engineer-in-Charge, all materials such as cement, sand and bricks, tools, plant and labour complete.	Sqm.	500.00	431.00	215500.00
E3	RCC M-35 for construction of raft, wall, beam, column and slab or any other structure from 3m below ground level upto the roof level of station building, cast-in-situ, with contractor's cement, stone aggregate of 20 mm to 6 mm size and coarse sand of approved quality including form work, mixing, placing, vibrating, compacting and curing with all lead, lift, labour and materials etc. Rate includes for straightening, decoiling, cutting, bending, cranking, binding, tack welding as necessary, placing and fixing in position steel reinforcement including angles/pins provided for the approved welded joints at and at all heights and depths above and below finished ground level. Reinforcement steel will be paid separately vide Item No. 1 of Schedule 'G'.	Cum	700.00	8707.00	6094900.00



SI No	Description of works	Unit	Approx Qty	Basic Rate in Rs	Amount in Rs
E4	Supplying, installation & fixing Semi Unitized System Structure Glazing, with openable panels as per detailed design, using duly approved colour Anodised/Powder coating aluminium extrusion of JINDAL make or similar with suitable Spacer tape, Dow corning Silicon sealant , 5mm/6mm thick Green Brown one way Reflective Glass of Saint Gobain or Ashai Float makes, with all accessories, screws clits, spacer, M.S. brackets etc. complete as per approved drawing and specification.	Sq.M	550	5447.00	2995850.00
	<u>Section Details</u>				
	i) Transmission -(J-2420)-(100x40x2 mm) and 1.469kg/rmt				
	ii) Mullion -(J-2530)-(40x40x3 mm) and 1.198kg/rmt				
	iii) Shutter -(J-28964)-(50x25x2 mm) and 0.600kg/rmt				
E5	Providing and fixing glass mosaic tiles of size 25x25mm / 20x20mm of Mridul/ Italia or approved equivalent make of approved colours laid over a bed of cement mortar 1:2 (1 cement : 2 coarse sand) and jointed with white cement slurry with permanent pigment to match the shade of the tiles complete. The tiles to be fixed using stone adhesive as cladding to wall, column in round and rectangular shape as per design, pattern, colour etc. decided by the Engineer-in-Charge. The rate also includes cost of all materials such as cement, tiles, adhesive and reputed artist to be employed for the above work by the agency.	Sq.M	1000	3840.00	3840000.00
E6	Supplying and fixing 6 mm thick white glazed vitreous ceramic tiles of 1st quality Spartek/ Kajaria/ Somany make or approved equivalent make in dado/ skirting etc. above & below finished ground level including providing 12 to 15 mm thick bedding of (1:3) cement sand mortar and each tile plastered on the back side with neat cement slurry before fixing to the bedding mortar including filling and finishing of all joints with white cement grout and cleaning with saw dust and diluted sulphuric acid, curing etc. as per drawings, specifications and directions of the Engineer-in-Charge, all material such as cement, sand, tiles, tool, plant and labour complete.	Sq.M	100	946.00	94600.00
E7	Supplying, fitting and fixing in position glazed Anodised aluminium doors of approved make with frames and shutters of standard anodized Aluminium sections made of 3 mm thick extruded sections with including handles, locking arrangement, stays, protective coatings complete, all as per drawings, specifications and directions of the Engineer-in-charge, all materials, tools, plant and labour complete	Sq.M	100	5590.00	559000.00



Sl No	Description of works	Unit	Approx Qty	Basic Rate in Rs	Amount in Rs
E8	Providing and fixing stainless steel grade 304 railing approximately 300mm high comprising of 25mm dia 10 gauge stainless steel hollow tube balusters welded to 50mm dia 12 gauge stainless steel pipe hand rail, balusters fixed in position with molten lead poured into 40mm dia G.I. sleeve with 80x80x3 mm G.I. plate and embedded in RCC @ 600 c/c with and including stainless steel socket cover all complete as shown in drawings.	RM	100	4523.00	452300.00
E9	Providing and fixing in position staircase railing from ground floor to platform level and other places, escalator, encloser at all levels made of SS 304 grade 50mm dia pipe, 3mm thick, 25mm dia of 2.5mm thick pipe including base plate if required duly welded and polished etc. with all lead, lift, labour, materials, taxes, scaffolding etc. complete and as directed by Engineer-in-Charge.	Kg	10000	456.00	4560000.00
E10	Providing 3 mm thick plaster of paris punning on plastered surfaces as specified at and at all heights above finished ground level as per drawing to the satisfaction of the Engineer including scaffolding, curing, cement primer etc, all as per drawings, specifications and directions of the Engineer-in-charge all materials, tools, plant and labour complete.	Sq.M	4200	49.00	205800.00
E11	Providing and fixing 50mm dia stainless steel grade 304 hand rail only welded to 32mm dia 10 gauge stainless steel brackets @ 900 mm c/c threaded to G.I. pipe welded to 90 x 90 x 3mm G.I. back plate, embedded to wall in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate of 20mm nominal size) all complete as shown in the drawing with all contractor's materials complete in all respects.	RM	100	3266.00	326600.00
E12	Supplying, fabricating and fixing in position aluminium composite panel cladding <b>Aludecor/Alstone</b> or equivalent, comprising of total thickness 4mm thick thermo-plast core of mid low density polyethylene sandwiched between two skins of 0.3mm thickness of aluminium sheet both sides, protected with self peel-off masking foil on the top surface as per approved shade with aluminium frame as per the following specification-	Sq M	3200	3495.00	11184000.00
	(i) Vertical main frame 40mmx40mmx 1.62mm at interval of 1200mm				
	(ii) ACP panel to be fixed on sub-frame of size 25mmx25mmx1.3mm with two more stiffeners running horizontally.				
	(iii) Provision to be made for making all panels openable for the purpose of cable maintenance.				



SI No	Description of works	Unit	Approx Qty	Basic Rate in Rs	Amount in Rs
	(iv) Powder coated aluminium T-section size 19mmx19mm to be provided for covering 12mm groove between the panels.				
	(v) Dow corning weather silicon (789) to be provided for filling any other groove and gaps between the wall and panels.				
E13	Providing and fixing rough finished Granite stone slab, 20mm thick 600 mm wide and minimum 1200mm long Red/Raw silk/Black flame finished to be provided at platform edge with one side "BULL NOSED" at the edge of PLATFORM. The rate includes all contractor's labour and materials including cement. (Colour and roughness of granite to be approved by Engineer-in-Charge)	Sq.M	200	9461.00	1892200.00
E14	Providing, laying polished granite stones 20mm thick, all to required sizes, design, details and pattern as per drawings, including diagonal, inlays, borders, margins in one or more types of stone over prepared base mortar with cement, fit jointed with/without groove, with white cement slurry mixed with pigment to match shade of granite including all finishing, all as required, as per specifications and drawings and as directed complete in floors, landings, counters, facias with upto 30mm thick base cement mortar 1:4 (1 cement : 4 coarse sand). The rate includes all contractor's labour and materials including cement.	Sq.M	1000	4017.00	4017000.00
	<b>Note:</b> i) This item could be used in combination of other type of stone in order to get the required pattern/design. ii) The colour of stone to be decided by Engineer-in-charge.				
E15	Providing and fixing 20mm thick and minimum 1200mm long Red/Raw silk/Black flame finished granite on approx. 300mm wide tread on stairs with and including nosing and 2 Nos. 6x6 anti-slip grooves filled with carborandum powder mixed with Araldite or equal adhesives. The rate includes all contractor's labour and materials including cement. (Colour of granite as approved by Engineer)	Sq.M	270	5568.00	1503360.00
E16	Ditto as item no. E15 above but on stair landings.	Sqm.	150	4516.00	677400.00



SI No	Description of works	Unit	Approx Qty	Basic Rate in Rs	Amount in Rs
E17	Providing and fixing 20 mm thick mirror polished, machine cut black granite for counters, facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing etc. complete at all levels. The rate includes all contractor's labour and materials including cement.	Sqm.	45	2530.00	113,850
E18	Extra for providing edge moulding to 20 mm thick black granite in counters, etc. over item no. E17 above including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer.	RM	35	185.00	6475.00
E19	Extra for fixing granite stone over and above item E17 above, in facia and drops of width upto 150mm with epoxy resin based (Araldite or equivalent) adhesive including cleaning etc. complete with all contractor's materials.	RM	16.5	73.00	1204.50
E20	Extra over item no. E17 above for providing opening of required size and shape for wash basins in counters and similar location in marble/stone work including necessary holes for pillar taps etc. including rubbing and polishing of cut edges etc. complete.	Each	5	24.00	120.00
E21	Mirror polishing on marble work/stone work wherever required to give high gloss finish complete.	Sq.M	30	99.00	2970.00
E22	Providing and fixing stainless steel cramps of required size and shape in RCC/CC /Brick work backing with cement mortar 1:2 (1 cement : 2 fine sand) including drilling necessary hole in stones and embedding the cramp in the hole (fastener to be paid separately). The rate includes all contractor's labour and materials such as cement.	Kg	100	285.00	28500.00
E23	Supplying and laying 40 mm flooring with 18mm to 22 mm thick KOTA stone tiles of uniform colour on 20 mm thick (average) bedding of mortar (1 cement: 3 sand) and jointing with cement grout with matching pigment at all heights and depths above and below finished ground level including curing, polishing, complete as per drawings, specifications and directions of the Engineer-in-charge, all materials, tools, plant and labour complete. The rate includes all contractor's labour and materials such as cement.	Sq.M	2200	1032.00	2270400.00



SI No	Description of works	Unit	Approx Qty	Basic Rate in Rs	Amount in Rs
E24	Providing and fixing kota stone slab 18mm to 22mm thick in risers of steps skirting, dado and pillars laid on 12mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs including rubbing and polishing complete. The rate includes all contractor's labour and materials such as cement.	Sq.M	150	1001.00	150150.00
E25	Supplying, fixing and polishing marble tiles 18 to 20 mm thick of any size of approved quality for floor, wall, column or at any other location laid on cement mortar (1:2) 20mm average thickness, with finishing the joints with white cement, all labour, materials complete. The rate includes all contractor's labour and materials such as cement.	Sq.M	430	1843.00	792490.00
E26	Providing and Fixing 10mm thick acid and/or alkali resistant tiles of approved make and colour using acid and or alkali resistant mortar bedding 12mm thick (1:4) 1 cement, 4 sand on floor, dado/skirting and joints filled with acid or alkali resistant cement as per IS:4457 complete as per the direction of Engineer-in-Charge. The rate includes all contractor's labour and materials such as cement.	Sq.M	200	828.00	165600.00
E27	Providing and and fixing tactile floor tiles of approved make and quality as per detail drawings on concourse, platform as per specifications. The rate includes all contractor's labour and materials.	Sq.M	100	2421.00	242100.00
E28	Providing and fixing Fibre Glass tile strips, bright Yellow in colour of size 450 X100 mm and 8mm thick of approved make on the platform as warning line as specified in detail drawings. The rate includes all contractor's labour and materials.	RM	350	484.00	169400.00
E29	Providing and fixing 100mm wide 3mm thick stainless steel plate with fixed over expansion joints screwed to floor with CSK screws and rawl plugs through slotted holes on one edge and round holes on other edge (screw on both edges @ 600mm c/c). Screws shall be staggered on either ends all complete as per details. The rate includes all contractor's labour and materials.	RM	50	1344.00	67200.00
E30	Fabrication and erection of portal frame for elevated platform roof made of Steel Hollow Sections conforming to IS: 4923, Yst. 310 grade of material. The rate includes supply of the material, fabrication as per the approved drawing and specification in shop, transporting to site and erecting the same to specific location, all taxes, labour, consumable, lead, lift etc. complete.	MT	250	66584.00	16646000.00



SI No	Description of works	Unit	Approx Qty	Basic Rate in Rs	Amount in Rs
	<b>Note:</b> Prior approval of the Engineer-in-Charge has to be taken by the contractor regarding the material to be used for the portal frame.				
E31	Manufacturing, supplying & fixing holding down bolts with nuts & washers made of flat/angles as per drawing including cutting, drilling holes, welding, etc. with all contractor's materials, labour, tools & plants and all consumables. complete in all respect. The rate also includes grouting of H.D. bolts by non-shrinkable cement based grout materials supplied by the contractor. The cost of non-shrinkable cement based grout materials will be paid separately in item no. F33 below.	MT	4	49974.00	199896.00
E32	Supplying at the site cement based non-shrinkable grout of CICO or similar brand. The rate is inclusive of cost of materials, its transportation & all other incidental charges to complete the work in all respect.	kg	2000	30.00	60000.00
E33	Providing and fixing 0.5mm total coated thick high tensile Zinc Aluminium alloy coated sheeting system having profile depth of sheet as 50.8mm and pitch of 453.9mm. The total coating mass is 150 gm/m <sup>2</sup> (AZ150). The paint system consists with 15-20 micron polyester coating over primer on outer side and manufacturer's backer coat on inner side. The sheet is to be fixed to the purlin (made of angle / channel/rectangular tube) with concealed compatible GI clip which will be held in position with wafer head screw. The entire roof will have no exposed screw (excepting at the joint of sheet and ridge or flashing) to generate water-tight system. The sheet shall generally be as per IS 14246 :1995 and IS 513 :1994.	Sq M	4800	840.00	4032000.00
E34	Providing and fixing 2mm thick metal profile polycarbonate sheeting system of GE Plastics India Ltd. or similar having profile depth of 50.8mm and pitch of 453.9mm or to match with main metal sheet profile as described in item no. F34 above or as per the drawing, complete in all respect. The sheet is to be fixed to the purlin (made of angle/channel/ rectangular tube) with concealed compatible GI clip which will be held in position with wafer head screw as per manufacturer's specification to be approved by Engineer-in-charge. Transparency and colour shed of the sheet will be as directed by the Engineer-in-charge.	Sq.M	700	2902.00	2031400.00



SI No	Description of works	Unit	Approx Qty	Basic Rate in Rs	Amount in Rs
E35	Providing and fixing 0.5mm total coated thick high tensile Zinc Aluminium alloy coated ridge / flashing / capping/ gutter (max. girth of 600mm) made of plain sheet but in required shape. The total coating mass is 150 gm/m <sup>2</sup> (AZ150). The paint system consists with 15-20 micron polyester coating over primer on outer side and manufacturer's backer coat on inner side. The sheet is to be fixed to the main roof sheet with self tapping self drilling stiching screw. The sheet shall generally be as per IS 14246 :1995 and IS 513 :1994.	RM	340	817.00	277780.00
E36	Providing and fixing Metal Ceiling System of Armstrong ORCAL Pc Duo Clip or equivalent make, consisting of 600 x 600 mm clip in tiles of pre coated galvanised steel having 3mm bevel in white colour, standard perforation of 2.5 mm dia, open area of 18% and having light reflectance >72%. Installation shall comprise of 4000 mm long spring bar securely fixed to the structural soffit by approved rigid hangers & 600 mm suspension clip. The tiles should be clipped in between two spring bars from below. The perimeter trim to be of Armstrong or equivalent make wall angles, white in colour, secured to walls at 450 mm maximum centres.	Sq. M	1250	1873.00	2341250.00
E37	Providing and fixing hand made ceramic pottery tiles as per approved design fixed with unitile adhesive on prefinished external surface upto a height of 15 m including cost of scaffolding etc complete. The rate includes all contractor's labour and materials.	Sq. M	200	4842.00	968400.00
E38	Providing and fixing in position polysulphide sealant (50mm X20mm) in all locations including separation/ expansion/ seismic/ movement joints and preparation of surfaces and edges, applying appropriate primer, backstop, bond preventive material/tape, masking tapes, applying the sealant and tooling the same to correct shape and dimensions all as per drawings, specifications and manufacturer's recommendation and as directed (Payment will be made in pro-rata basis for change in width).	RM	50	712.00	35600.00
E39	Providing and fixing in position of waiting/visitors 03 seater stainless steel sheet with arms rest including round and square steel tubular frame of strong and steady having seat and back of "Steel Junction" made including grouting to the existing floor with nuts and bolts at different locations of platform as directed by site Engineer complete in all respects with all lead, lift, labour, taxes, materials etc. (Note: Each set consists of 03 chairs.)	Set	12	13802.00	165624.00



SI No	Description of works	Unit	Approx Qty	Basic Rate in Rs	Amount in Rs
E40	Supplying, fitting and fixing complete 12mm thick toughened clear glass for glazed portion of booking/ticketing counters at any level including provision of counter opening etc. with all lead, lift, labour, materials complete in all respects as per direction of Engineer-in-Charge.	Sqm.	12	2859.00	34308.00
E41	Fabricating, supplying and installing for fire and general purpose door of "SHAKTIMET-DOR" brand of different sizes including fixing of SS ball and bearing, butt hinges, mortice dead bolt, SSD handle, door closer with float vision glass 5mm thick of size 200X300mm single glazed including painting etc.				
	(a) D1	Sqm.	7	8727.00	61089.00
	(b) D4	Sqm.	10	11146.00	111460.00
E42	Supplying and fixing aluminium grill on existing aluminium frame at all levels with all lead, lift, labour, materials, taxes, scaffolding etc. complete as directed by Engineer-in-Charge.	Sqm.	50	1456.00	72800.00
E43	Supplying, fitting, fixing in position 10-12mm thick cement concrete tiles of any size conforming to IS 13801-1993 over 20mm average thick base of cement mortar (1:6) and jointed with cement slurry mixed with pigment to match the shade of the slab, including cutting and polishing complete in all respects. the rate includes supply of all consumables including cement by the contractor. The rate includes all contractor's labour and materials such as cement.	Sqm.	1000	725.00	725000.00
E44	Supplying, fabricating, transporting and fixing in position, M.S. structural items rolled / fabricated / bars / including necessary welding, grinding drilling of holes to the frames, if required, for fixing etc and including providing one coat of primer conforming to IS: 2074 all as per drawings, specifications and directions of the Engineer-in-charge, all materials, tools, plant and labour complete.	Kg	1400	54.00	75600.00
<b>Total of Schedule 'E' = Rs.</b>					<b>73638176.50</b>



<b>Schedule - F. Supply of Cement.</b>					
<b>It No.</b>	<b>Description of work</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate in Rs.</b>	<b>Amount in Rs.</b>
F1	Supply of Portland Slag Cement confirming to IS 455 at the work site to the extent required by Railway for use in work. Rate includes loading, unloading, transportation, handling, testing, storing, VAT, octroi, taxes, etc. complete	MT	14000	6490.00	90860000.00
	Note: Payment will be based on actual consumption.				
<b>Total of Schedule - 'F' =</b>					<b>90860000.00</b>

<b>Schedule - G. Supply of Reinforcement Steel.</b>					
<b>It No.</b>	<b>Description of work</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate in Rs.</b>	<b>Amount in Rs.</b>
G1	Supplying cold twisted/ribbed reinforcement of TMT Grade as per IS 1786. Rate includes loading, unloading, transportation, handling, testing, VAT, octroi, taxes, etc. complete	MT	6718	49877.00	335073686.00
	Note:				
	(i) Payment will be based on actual consumption.				
<b>Total of Schedule - 'G' =</b>					<b>335073686.00</b>

<b>Schedule - H. Miscellaneous Works.</b>					
<b>It No.</b>	<b>Description of work</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate in Rs.</b>	<b>Amount in Rs.</b>
H1	Other items of works of not covered by the above Schedules i.e A, B, C, D, E, F & G above but are required to be carried out in connection with the works and to be executed as per Eastern Railway's Schedule of Material and Labour 2005 as applicable for Sealdah Division. Basic Cost = Rs 20,00,000 + 39% premium. Total cost = Rs 27,80,000/-.				2780000.00
<b>Total of Schedule - 'G' =</b>					<b>2780000.00</b>

**GENERAL**

The correction slip forms part of the Tender Document of Tender No. Civil/1882 and therefore must be returned by the tenderer duly signed, in token of acceptance while submitting this tender as in the case of all pages of tender document.

**Chief Engineer  
Metro Railway/Kolkata  
For & on behalf of PRESIDENT OF INDIA**

