SECTION - 9

ITEM RATE BOQ
PRICE SCHEDULES

K-RIDE

BILL OF QUANTITES (BOQ)

NAME OF WORK:

"Yeshwanthpur - Channasandra Doubling Project - Linking of BG track between Yeshwanthpur and Baiyyappanahalli "A" panel, including Yeshwanthpur, Lottegollahalli & Banaswadi Yards, excluding Hebbal Yard to Banaswadi and Misc. works in Bangalore Division of South Western Railway"

&

"Baiyyappanahalli - Hosur Doubling Project - Linking of BG Track with Allied Works and Manufacturing, Supply & Stacking of Machine-Crushed Track Ballast conforming to RDSO Specification (IRS-GE-1) from Km 197/900 to Km 205/500 between Belandur Road (Excl.) and Baiyyappanahalli "A" Cabin (Incl.) in Bengaluru Division of South Western Railway".

PREAMBLE

1. The Price Schedule shall be read in conjunction with the Instructions to Tenderers, Conditions of Contract, Notice Inviting Tender, Technical Specifications, Tender Drawings, Schedule, Annexures and Addendums.

2. The tenderer shall quote in terms of Lumpsum amount on CPP portal

3. The quoted Amount are for completed and finished items of work and complete in all respects. It will be deemed to have included all constructional plant, tools, machinery, labour, supervision, materials, fuel, oil, consumables, electric power, water, transportation, all leads and lifts, dewatering, all temporary works, construction of temporary stores and buildings, fencing, watering, lighting, erection maintenance, night working, inspection facilities, safety measures at work sites for workmen and road users, charges of liaison with BESCOM/ KPTCL / PGCL,/BBMP State / Central Government and local bodies, availing clearance, joint inspection, testing, commissioning and energization, all the other incidental charges payable to BESCOM / KPTCL/ PGCL / BBMP, GAIL, BWSSB, BDA, charges for stamp duties/ agreements, execution of agreement with KRIDE / Railways and SEB authorities/ ESCOM submitting Relevant documents for EIG approval as per the requirement etc., Establishment and overhead charges, labour camps, insurance costs for labour and works, contractor's profit, all taxes (Excluding GST), royalties, duties, cess, octroi, other levies and other charges together with all general risks, liabilities and obligations set out or implied in the contract and including remedy of any defects during the Defect Liability Period, unless otherwise provided in Price schedule. However, statutory supervision charges of 05/10% payable to State Authorities/DISCOM and any charges related ROW charges, Electrical inspectorate, and inspection charges payable to BESCOM/BBMP will be paid by KRIDE.

   Providing concrete for all works deemed to be inclusive of the cost towards production of concrete by batching plant, transit mixer, transportation of concrete with all leads and lifts, form work, shuttering including staging as required, pouring of concrete by pump/tower crane to all heights /depths, tremie or other approved means, compaction by vibrators, curing by approved means such as water, steam or curing compound and all labour, tools, plants, machinery required for execution of work complete in all respects including de-shuttering after completion of work.

4. The whole cost of complying with the provisions of the Contract shall be deemed to have been included in the quoted Amount.

5. General directions and description of works and materials are not necessarily repeated or summarized in the Price Schedule.

6. The method of measurement of completed work for payment shall be in accordance with the requirements as stated in the individual sections of the Technical Specifications and Conditions of

Contract.

7. Shuttering required for concrete work shall be of steel except wherever there are site constraints as decided by Engineer.
8. Tenderer may please note that to perform this contract, nothing extra shall be payable on account of field constraints, availability of front, preparation of detailed scheme for taking necessary clearance and approval from the concerned authority and other local bodies etc.
9. Contract prices shall be inclusive of all taxes and duties payable by them excluding GST. Income tax and any other statutory taxes to be deducted at source, if any, will be deducted by the Employer in accordance with Income Tax Act and any other acts in force in accordance with instructions issued by authorities on this behalf, from time to time.
10. The Tenderer is required to furnish the PAN for all members of Group.
11. Replace CA audit with Statutory Auditor wherever applicable, except in qualification of experts.
12. The Contract price indicated is tentative only, may decrease or increase depending on the field condition, successful bidder shall not be entitled to any claim for negative variation/value of work.

Note:

1. The Tenderer are advice to quote rate in two decimals.
2. If no rate has been indicated for any schedule/bill in words, as well as in figures, irrespective of the fact whether the Tenderer has written or not written above/below/at par, in such cases, the rate shall be considered as Zero and the price shall be calculated accordingly (Refer: Additional Instructions to Tenderers Clause no: 24.4 (d)).
3. Amount shall be quoted by the Tenderer in Indian Rupees.
4. Where there is a discrepancy between the rate in figures and words, the lower of the two will govern. [ITT Clause 24.1]

PRICE SCHEDULE

SI No	Name of Work	Estimated Amount in Rs.
1	Yeshwanthpur - Channasandra Doubling Project - Linking of BG track between Yeshwanthpur and Baiyyappanahalli "A" panel including Yeshwanthpur, Lottegollahalli and Banaswadi Yards excluding Hebbal Yard to Banaswadi and Misc. works in Bangalore Division of South Western Railway"	10,54,28,649.00
2	Baiyyappanahalli - Hosur Doubling Project: Linking of BG Track with Allied Works and Manufacturing, Supply & Stacking of Machine-Crushed Track Ballast conforming to RDSO Specification (IRS-GE-1) from Km 197/900 to Km 205/500 between Belandur Road (Excl.) and Baiyyappanahalli “A” Cabin (Incl.) in Bengaluru Division of South Western Railway”.	9,40,11,138.00
Total		**19,94,39,787.00**

Note:

1. The Highest annual turnover in last 5 years shall be considered for deciding Lowest bidder if any two bidders quoted the same amount.

PAYMENT TERMS

1. Supply payments: The contractor shall be entitled to be paid against supply of material only for such works as in the opinion of Engineer he has supplied in terms of the contract. All payments shall be subject to deductions. Payments provided always that the engineer may withhold if the works or part thereof are not being carried out to his satisfaction.
2. Contractor shall take prior approval of Engineer-in-charge before supplying of the material along with the approval of makes, drawing and quantity.
3. Payment will be made only for the actual quantity utilised for the work in the field.
4. **Payment for procurement of material and progress of work is given below in Following manner;**
   Procurement of following items shall be as approved by Engineer-in-charge of the work and K-RIDE. Payment of the accepted price shall be paid on the receipt and accountable of material at site or required destination after inspection and production of documents as listed below:

   i. E-way bill.
   ii. Supplier's Delivery Challans and supplier's Tax invoice/GST.
   iii. Inspection certificate granted by the authorized /approved agency/Purchaser's representative as per contract.
   iv. Certificate of receipt of material at Contractor depot/work sites duly accepted by the Engineer.
   v. Quality Assurance Documents including Guarantee/Warrantee, if any.
   vi. Insurance certificate of 100% value valid till liability period.
   vii. Indemnity bond of 100% value of the item proposed for supply payment (70% payment).

5. **Rounding off amounts:** The total amount due on each certificate shall be rounded off to the nearest rupee i.e., sum less than 50 paise shall be omitted and sums of 50 paise and more up to Rs.1 will be reckoned as Rs.1.6. Manner of payment: Unless otherwise specified payments to the contractor will be transferred electronically to his bank account.
6. **FINAL SETTLEMENT:** On expiry of the defect liability period and issue of the taking over certificate of the entire installation, the Bank Guarantee for Performance security shall be released to the contractor after adjustment of any dues payable by the contractor.
7. **RECOVERIES FROM THE CONTRACTOR:** All the recoveries for materials supplied and services rendered by KRIDE to the Contractor, if any and other refunds due from the Contractor shall be made by deductions from payments due to the Contractor covering the value of supply and erection in the progress payment.
8. **TAXES AND DUTIES:**
   a. All taxes, duties, and levies (including octroi, works contract tax, etc.,) arising out of the transactions between the contractor and his sub-contractor/Suppliers for this work will be deemed to be included in the accepted rates excluding GST, unless otherwise specified in the BOQ or technical specification.

   b. Where the law makes it statutory for the Purchaser to deduct any amount towards GST or any other taxes on works contract, the same shall be deducted and remitted to the concerned authority.

BILL OF QUANTITIES

"Yeshwanthpur - Channasandra Doubling Project - Linking of BG track between Yeshwanthpur and Baiyyappanahalli "A" panel including Yeshwanthpur, Lottegollahalli and Banaswadi Yards excluding Hebbal Yard to Banaswadi and Misc. works in Bangalore Division of South Western Railway".

ABSTRACT		
Name of Work:"Yeshwanthpur - Channasandra Doubling Project - Linking of BG track between Yeshwanthpur and Baiyyappanahalli "A" panel including Yeshwanthpur, Lottegollahalli and Banaswadi Yards excluding Hebbal Yard to Banaswadi and Misc. works in Bangalore Division of South Western Railway"		
Schedule	**Description of Schedule**	**Amount in Rs. (excl GST)**
Sch "L1"	Linking of Track under Traffic Block condition (Items Covered Under USSOR-2022)	1,39,12,298
Sch "L2"	Linking of Track under Non-Traffic Block condition (Items Covered Under USSOR-2022)	7,07,97,021
Sch "M"	Linking of Track (Non USSOR Items)	2,07,19,330
Total		**10,54,28,649**

Schedule "L1": Linking of Track under Block Conditions (Items Covered Under USSOR-2022)

Sl No	USSOR No.	Description of Items	Unit	Rate	Qty	Amount
1	171060	Unloading of rails of any section and length from 13 metre to 39 metre, in neat manner for Railway usage from departmental material train (DMT) including lead up to 50 metre and lift up to 5 metre rails of any section and length from 13 metre to 39				
1a	171061	During period of traffic block	MT	171.00	100	17,100
2	171070	Unloading of all type of rails of length 130 metre and beyond from end unloading rake and keep the panels in head-up position at specified distance from centre of track clear from any infringement. Note: Contractor has to keep Oxygen and Acetylene gas with cutter as standby during the period of work.				
2a	171071	During Period of traffic Block	MT	28.00	942	26,378
3	122010	Shifting & pairing of rails / panels unloaded alongside existing running track to adjoining formation of a new line including crossing of one track, duly lifting & pushing rail / panel without damaging it and taking all necessary precautions, so as not to infringe the running track, as directed by Engineer in-charge. Note: The rail barricading, if disturbed during working, should be restored to its original condition by the agency including re-fixing & concreting as required.				
3a	122013	For rails/panels of more than 13m and up to 40m length - Under Traffic Block	RM	28.00	500	14,000
3b	122015	For rails/panels of more than 40m length - Under Traffic	RM	40.00	15600	6,24,000
3c	122018	Extra over item No 122013 for crossing each additional line	RM	2.00	1000	2,000
3d	122019	Extra over item No 122015 for crossing each additional line	RM	3.00	31200	93,600
4	061020	Dismantling and removing rail of all section & length from track, laid on any type & density of sleeper by removing fish plates, fastenings & fish bolts and other materials including stacking all released materials within 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.				

4a	061021	For Through Rail Renewal work	TRM	41.00	3000	1,23,000
5	062010	Through Sleeper Renewal (TSR) with PSC sleepers involving removal existing sleepers of any type along with fittings from track, insertion of PSC sleepers lying along the cess / formation / slope / toe within 5 metres height with all fittings to specified spacing, gauge and squareness, one round of through packing to make track fit for 20 kmph speed, dressing of ballast to standard profile, all in accordance with the latest provisions of IRPWM and stacking of all released material neatly at specified places within an average lead of 100 m as directed by Engineer in-charge.				
5a	062013	For PSC wider base sleepers - For location of work not involving deep screening	Each	332.00	2000	6,64,000
6	072030	Assembling on temporary staging and insertion of all types of turnouts including diamond crossings and derailing switches on prepared ballast bed during traffic block, manually or by contractor's cranes, at specified location with 52Kg / 60Kg rail section on PSC sleepers with Railways rails/sleepers available anywhere within 500m as per standard drawing, duly leading sleepers, rails, switches, crossings, fastenings etc. including rail cutting, drilling, fixing of all components, fittings etc. with housing of tongue rails as per requirement of signalling including crossing of track, filling and spreading of ballast in crib and shoulder as required, linking of turnout with existing track, attending track parameters including lifting, providing one round of packing to make track fit for 20 kmph speed including lubrication of fittings/fastenings, complete in all respect and as directed by Engineer in-charge. Note: Required P.Way fittings shall be supplied at the SSE/P.Way stores.				
6a	072032	1 in 8½ Turnouts	Set	55252.00	2	1,10,504
6b	072032	1 in 12 Turnouts	Set	64139.00	25	16,03,475
6c	072032	1 in 16 Turnouts	Set	71447.00	1	71,447
6d	072032	Derailing Switch	Set	13670.00	2	27,340

7	121010	Dismantling of existing LWR/SWR track of any structure, removing rails, sleepers, fish plates, cutting of rails, segregation and stacking of released Rails, Sleepers and fitting at nominated location in countable manner within a free lead of 500m, levelling of ballast to correct profile for laying new track over it, all as per direction of Engineer-in-Charge.	TRM	167.00	2000	3,34,000
8	071010	Under Traffic Block: Dismantling of existing BG turnouts, diamond crossings and derailing switches with all types of rails and sleeper layout, removing rails, switches, crossings, sleepers & fastenings, leveling of ballast to correct profile & stacking all the released materials, sleepers, fastenings, rails, switches & crossings including segregating & stacking at specified locations in a neat and countable manner, within the lead of 250m & all lift, clear of infringements, crossing of track, if any complete, as directed. Note: 1. This item shall be operated only when existing turnout is replaced either with new turnout in case of TTR or with plain track when existing turnout is no more required at that location. 2. Rail cutting will be paid extra under relevant item. 3. Laying of new turnout or plain track on prepared ballast bed, as required, shall be paid separately under relevant item.				
8a	071011	1 in 8½ Turnout (Under Traffic Block)	Set	28199.00	7	1,97,393
8b	071012	1 in 12 Turnout (Under Traffic Block)	Set	32440.00	11	3,56,840
9	065030	Assembling and Laying of Improved Switch Expansion Joint (SEJ) on PSC sleepers of any rail section as per RDSO drawing including leading of SEJ rails, sleepers, fittings for a free lead of 250 metres, cutting of rails, drilling of holes as required and lubrication of SEJ, gauging, aligning rails, providing temporary connection with adequate welding gap with adjoining rails, providing reference posts at SEJ, first through packing of SEJ potion to make track geometry fit for 30 kmph speed and making ballast profile as per IRPWM. Note: (1) Rail cutting and hole drilling shall be paid separately. (2) One set comprise complete SEJ on both rails at SEJ.				
9a	065032	Under traffic Block condition	Set	7064.00	16	1,13,024
10	136060	Replacing existing glued joint rail with cut rails or with glued joint rail or insertion of glued joint by cutting existing track under traffic	Each	1692.00	200	3,38,400

		condition by cutting rails, re fixing with all rail sleeper fastenings and providing required gaps for carrying out welding as an alternative to drilling holes or joining rails with fish plates duly drilling holes as required including stacking of released material and as directed by engineer in-charge. Note: (1) Drilling holes & rail cutting will be paid separately. (2) Transportation of materials to the site of work from supply points, if more than 250m, shall be paid separately.				
11	161010	Quick cutting with abrasive rail cutter of all types of rail sections including wear resistant, head hardened rails up to 110 UTS, with contractors' tools & plants, equipment, consumable with all lead & lift etc. complete as directed by Engineer in-charge. Abrasive Rail Cutter will be as per RDSO Specification No. TM/SM/1 (Rev. 01 of 2012) with latest status of RDSO; Rail Cutting Wheel Abrasive Disc will be as per RDSO Specification No.TM/SM/2 (Rev. 01 of 2020)				
11a	161014	60 Kg - 110/90 UTS - On Running Line	Each	304.00	500	1,52,000
11b	161015	52 Kg - 90 UTS- On Running Line	Each	246.00	300	73,800
12	064052	Gas cutting of rail of various sections with contractor's tools & plants, as directed by engineer in-charge :Rail section of 52Kg and above	Each	117.00	100	11,700
13	161040	Drilling holes of 16 mm to 32 mm dia. with Rail Drilling machine including chamfering with appropriate chamfering tools in all types of rail section with contractor's tools & plants, equipment, consumable with all lead & lift etc. complete, as directed by Engineer in-charge. Rail Drilling Machine will be as per RDSO Specification No. TM/SM/3, dated 24.04.1991.				
13a	161042	On Running Line	Each	68.00	1500	1,02,000
14	186180	Fixing of grip expansion bolts of 18mm / 22mm dia. with nuts and MS clips / washers on PSC sleepers as per specifications for fixing guard rails / check rails / trolley path including drilling of required holes in sleepers with all fittings with contractor's tools & plants, equipment, consumables with all lead, lifts etc. complete, as directed by Engineer in-charge, excluding cost of bolts, nuts, washers, clips etc.	Each	131.00	100	13,100

15	083010	Lifting and packing for regarding the existing PSC sleeper track to required height / level in stages not exceeding 75mm or part thereof at a time, providing permissible ramp for the track, insertion of moorum / sand / stone ballast uniformly under the existing track and placing the same to safe approved gradient, gauge, cushion including levelling and one round of through packing to allow train movement at restricted speed of 30 kmph for a specified length with all leads & lifts and fixing, marking, painting rail level pegs at every 30m interval. Note: Lifting of track shall be done in stages as per procedure prescribed in latest edition of IRPWM to get the proposed final level as per approved working profile, as directed by Engineer in charge.	TRM	167.00	300	50,100
16	083011	Extra for additional lift over 75mm for every 50mm lift or part thereof up to 275mm for item nos. 083010 for each TRM.	TRM	25.00	600	15,000
17	155010	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, screening and replenishment of ballast at mud pumping / 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 ballast Note: 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.				
17a	155011	For day time block working	TRM	17.00	20000	3,40,000
17b	155012	For night time block working	TRM	20.00	10000	2,00,000
18	155020	Pre, during & post tamping operations, for tamping of track on level crossing portion on all types of track structure and density, during traffic block, duly opening the road surface by digging up to the required width and up to 50mm below bottom of sleeper to facilitate tamping, removing and refilling ballast, adjustment of deficient ballast if necessary by picking from adjoining track/shoulder/cribs, removing and refixing all inter locking gears interfering, removing and re-fixing of check rails and painting of running rail & check rail with coal tar emulsion, completing road surface to smooth motorable condition after tamping is over, including tightening of loose fittings, replacement of broken/missing fittings, correction of displaced sleepers to correct position and as directed by Engineer in charge.				
18a	155021	Level crossing with asphalted surface	Sqm	353.00	100	35,300
19	156010	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 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 UNIMAT; (4) Digging, screening and replenishment of ballast at mud pumping / rounded ballast in sleeper crib location; (5) Tightening of loose fittings including check rails 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 worked-out / fallen fittings; (9) Removing and re-fixing joggled fish plates & wooden blocks, OHE bonds & other obstructions, wherever necessary ;(10) Removing and re-fixing stretcher bar, 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 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; (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.				
19a	156011	1 in 8.5 Turnouts (Under Traffic Block Conditions)	Set	8699.00	22	1,91,378
19b	156012	1 in 12 Turnouts (Under Traffic Block Conditions)	Set	10121.00	74	7,48,954
19c	156013	1 in 16 Turnouts (Under Traffic Block Conditions)	Set	13156.00	2	26,312
19d	156015	Derailing switch (Under Traffic Block Conditions)	Set	3204.00	18	57,672
20	156020	Extra Over Item Numbers 156011 to 156015 for night block working				
20a	156021	Extra to Item no. 156011 for night block working	Set	1305.00	11	14,355
20b	156022	Extra to Item no. 156012 for night block working	Set	1518.00	37	56,166
20c	156023	Extra to Item no. 156013 for night block working	Set	1973.00	4	7,892
20d	156025	Extra to Item no. 156015 for night block working	Set	481.00	9	4,329
21	135010	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 ERCs and liner contact area, lifting rails and keeping them on rollers provided at every 15 sleepers, working out elongation of rail ends depending on prevailing site conditions, pulling rails with the help of Hydraulic Tensor to 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) As per procedure prescribed in latest edition of IRPWM & CE's Circulars for destressing of LWR/CWR, if any.				
21a	135012	With Contractor‟s Hydraulic Rail tensor	TRM	48.00	2000	96,000
21b	135013	Without Rail tensor	TRM	46.00	11000	5,06,000
22	123080	Carrying out cut & connection to the existing PSC sleeper track under line block of any rail section and sleeper density to connect the same	Each	59882.00	20	11,97,640

		to newly linked track which is laid by the side, duly carrying out cutting of rails, insertion of additional PSC sleepers, if required, providing fish plated joints including drilling of holes, slewing required length of both tracks to rescribed alignment, adjusting sleeper spacing, providing continuity to track, spreading of ballast to provide cushion, shoulder ballast to the track stretch, giving one round of initial packing to make track fit for 20 kmph speed and boxing of ballast to profile as directed by Engineer in charge.				
23	123090	Shifting / Slewing the existing or newly assembled track of any rail section with any type of sleepers and any density under line block to correct locations & alignment and attending to one round kutcha packing to run safely at 20KMPH speed with all contractors tools and consumables complete and as directed by Engineer in-charge.				
23a	123091	Maximum Shifting / Slewing up to 1 metre	TRM	193.00	3500	6,75,500
23b	123092	Maximum Shifting / Slewing for more than 1 metre & up to 2 metres	TRM	231.00	2500	5,77,500
24	084040	Unloading of ballast from Railway's Hopper Wagons, quantity distribution as per pre-defined site requirement, clearing infringements/jammed ballast, distributing the unloaded ballast uniformly over the track, profiling and boxing following all prescribed safety norms.				
24a	084041	Under Traffic Block Conditions:	Cum	49.00	10000	4,90,000
25	136010	Fixing Joggled Fish Plates with bolt / clamp (supplied by Railway 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).				
25a	136011	With 2 bolts	Set	102.00	100	10,200
25b	136012	With 4 bolts	Set	114.00	50	5,700
25c	136013	With Clamps	Set	146.00	100	14,600
26	157020	Carrying out ancillary works required for UTV working under line block i.e., turning of rails/ Sleepers and keeping in position for fixing of UTV clamps to rail, keeping rails/PSC Sleepers in position while loading into BFR, removal of clamps on BFR for releasing loaded rail/Sleepers, adjusting of rails/Sleepers on BFR etc. by providing minimum of three men in a shift of 8 hours, with all contractor's tools, all lead, lift,	shift	2128.00	60	1,27,680

		crossing of tracks etc., complete and as directed by the engineer - in - charge. Note: In case, contractor provides less no. of Labour, payment will be deducted for each such person @ 2/3 rd of the accepted item rate.				
27	172030	Loading, leading and unloading of PSC Sleepers of 52Kg / 60Kg by Railway's Rail Dolly/ Dip Lorry to the nominated location under traffic in case road carriage is not possible for different leads and lift up to 5 metres.				
27a	172031	For lead up to 500 metres	MT	278.00	500	1,39,000
27b	172032	For lead beyond 500 metre and up to 1 Km	MT	413.00	500	2,06,500
28	171030	Loading, leading and unloading of 52Kg / 60Kg rail up to 13 metre length by Railway's Rail Dolly / Dip Lorry to the nominated location under traffic with line protection in case road carriage is not possible with different lead with a lift up to 5 metre during block period.				
28a	171031	For lead up to 500 metre.	MT	358.00	60	21,602
28b	171032	For lead beyond 500 metre and up to 1 Km.	MT	461.00	60	27,817
29		Miscellaneous items under USSOR 2022 / any other SOR's not covered under Original scope of work.	LS	3000000.00	1	30,00,000
					Total of Schedule "L1"	**1,39,12,298**

Schedule "L2" : Linking of Track under Non-Traffic Block Conditions (Items Covered Under USSOR-2022)

Sl No	USSOR No.	Description of Items	Unit	Rate	Qty	Amount
1	171070	Unloading of all type of rails of length 130 metre and beyond from end unloading rake and keep the panels in head-up position at specified distance from centre of track clear from any infringement. Note: Contractor has to keep Oxygen and Acetylene gas with cutter as standby during the period of work.				
1a	171072	Not involving traffic block	MT	23.00	1500	34,500
2	171060	Unloading of rails of any section and length from 13 metre to 39 metre, in neat manner for Railway usage from departmental				

		material train (DMT) including lead up to 50 metre and lift up to 5 metres.				
2a	171062	Not involving traffic block or in lines not opened to traffic	MT	114.00	300	34,200
3	122010	Shifting & pairing of rails / panels unloaded alongside existing running track to adjoining formation of a new line including crossing of one track, duly lifting & pushing rail / panel without damaging it and taking all necessary precautions, so as not to infringe the running track, as directed by Engineer in-charge. Note: The rail barricading, if disturbed during working, should be restored to its original condition by the agency including re-fixing & concreting as required.				
3a	122014	For rails/panels of more than 13m and up to 40m length - Under Conditions not requiring Traffic Block	RM	20.00	4000	80,000
3b	122016	For rails/panels of more than 40m length - Under conditions not requiring Traffic Block	RM	28.00	22000	6,16,000
4	123010	Providing Centre Line / Rail Level, reference Pegs on formation at an interval of 30 metres on one side or at centre of proposed / existing track, as directed by engineer in-charge for linking of new track / CTR / Deep Screening / Lifting / Lowering works, duly embedding in formation including marking with contractor's paint. Note: (1) Rails/tie bar of suitable size bar shall be supplied by the Railways from nearest Stores Depot. In case of hard wood peg, the hard wood will be supplied by the contractor. (2) Excavation and concrete work, if required, will be paid separately.				
4a	123013	With contractor's hard wood pegs of 50 mm dia and 60 cm long	Each	117.00	883	1,03,350

5	123040	Linking of BG track (except at LC, Bridges and SEJs) with any type of rail section and sleeper of specified density, on ballast bed spread and compacted with suitable roller, over prepared formation including leading free rails/welded panels available along the alignment on to formation, leading and spreading all fittings and fastenings, spreading of sleepers at specified spacing, squaring, placing of rails over sleepers and fixing rails to sleepers with all types of fittings and fastenings to correct gauge & alignment, lubrication of fittings and fastenings with contractor's grease as per IRPWM standards with contractors labour, tools, consumables, with all lead, lifts etc. complete and raising, levelling and initial packing of track to make it fit for 30 kmph and meet other prerequisites prescribed in Indian Railway Track Machine Manual for deployment of Tamping Machine. Note: 1. Rail cutting and Hole drilling shall be paid separately. 2. Spreading of ballast and compaction shall be paid separately under relevant item.				
5a	123041	For sleeper density of 1660 sleepers per km	TRM	270.00	23000	62,10,000
5b	123042	For sleeper density of 1540 sleepers per km	TRM	251.00	4000	10,04,000
6	123050	Linking of track at level crossing locations as per RDSO drawings with any type of rail section and sleeper on prepared formation including leading free rails/welded panels available along the alignment on to formation, spreading of sleepers at specified spacing, squaring, placing of rails over sleepers and fixing rails to sleepers with all types of fittings and fastenings to correct gauge & alignment, excavating level crossing portion as necessary, fixing check rails to running rails, providing C.C blocks, chairs, anti-corrosive painting to running rails and check rails, lubrication of fittings and fastenings with contractor's grease as per IRPWM standards with contractors labour, tools, consumables, with all lead, lifts etc. complete and raising, levelling and initial packing of track to make it fit for 30 kmph and meet other prerequisites prescribed in Indian Railway Track Machine Manual for deployment of Tamping Machine.	TRM	412.00	80	32,960

		Note: Rail cutting and hole drilling, if required, shall be paid separately under relevant item.				
7	123060	Linking of BG track (with guard rail) over ballasted deck bridges with any type of rail section and PSC sleeper including leading free rails/welded panels available along the alignment on to bridge, leading and spreading all fittings and fastenings, leading & spreading of sleepers at specified spacing, squaring, placing of rails over sleepers and fixing rails & guard rails to sleepers with all types of fittings and fastenings to correct gauge & alignment, lubrication of fittings and fastenings with contractor's grease as per IRPWM standards with contractors labour, tools, consumables, with all lead, lifts etc. complete and raising, levelling and initial packing of track to make it fit for 30 kmph and meet other prerequisites prescribed in Indian Railway Track Machine Manual for deployment of Tamping Machine. Note: 1.Rail cutting and Hole drilling shall be paid separately. 2.Spreading of ballast and compaction shall be paid separately under relevant item. 3. This item shall be applicable only when track is with Guard Rail. Linking without guard rail be paid under relevant item for plain track	TRM	399.00	500	1,99,500
8	062010	Through Sleeper Renewal (TSR) with PSC sleepers involving removal existing sleepers of any type along with fittings from track, insertion of PSC sleepers lying along the cess / formation / slope / toe within 5 metres height with all fittings to specified spacing, gauge and squareness, one round of through packing to make track fit for 20 kmph speed, dressing of ballast to standard profile, all in accordance with the latest provisions of IRPWM and stacking of all released material neatly at specified places within an average lead of 100 m as directed by Engineer in-charge.				
8a	062013	For PSC wider base sleepers - For location of work not involving deep screening	Each	332.00	800	2,65,600

9	072040	Laying and linking of turnouts of all types including diamond crossings & Derailing switches with 52Kg / 60Kg rail section on PSC sleepers on prepared ballast bed for New lines or during total closure of section at indicated location as per standard drawing, duly leading sleepers, rails, switches, crossings, fastenings including rail cutting, drilling, fixing of all components, fittings with housing of tongue rails as per requirement of signaling, preparing ballast bed, filling and spreading of ballast as required, linking of turnout with track, attending track parameters including lifting, providing one round of packing to make track fit for 20 kmph speed including lubrication of fittings/fastenings, complete as directed by Engineer in-charge.				
9a	072041	1 in 8.5 Turnouts	Set	40870.00	12	4,90,440
9b	072042	1 in 12 Turnouts	Set	47641.00	15	7,14,615
9c	072043	1 in 16 Turnouts	Set	52493.00	1	52,493
9d	072046	Derailing Switch	Set	9177.00	9	82,593
10	065030	Assembling and Laying of Improved Switch Expansion Joint (SEJ) on PSC sleepers of any rail section as per RDSO drawing including leading of SEJ rails, sleepers, fittings for a free lead of 250 metres, cutting of rails, drilling of holes as required and lubrication of SEJ, gauging, aligning rails, providing temporary connection with adequate welding gap with adjoining rails, providing reference posts at SEJ, first through packing of SEJ potion to make track geometry fit for 30 kmph speed and making ballast profile as per IRPWM. Note: (1) Rail cutting and hole drilling shall be paid separately. (2) One set comprise complete SEJ on both rails at SEJ.				
10a	065031	Under Conditions not requiring Traffic Block	Set	6422.00	20	1,28,440
11	161010	Quick cutting with abrasive rail cutter of all types of rail sections including wear resistant, head hardened rails up to 110 UTS, with contractors' tools & plants, equipment, consumable with all lead & lift etc. complete as directed by Engineer in-charge. Abrasive Rail Cutter will be as per RDSO Specification No. TM/SM/1 (Rev. 01 of 2012) with latest status of RDSO; Rail Cutting Wheel				

		Abrasive Disc will be as per RDSO Specification No.TM/SM/2 (Rev. 01 of 2020)				
11a	161011	60 Kg - 110/90 UTS - Outside Track	Each	238.00	1200	2,85,600
11b	161012	52 Kg - 90 UTS - Outside Track	Each	216.00	2500	5,40,000
12	064050	Gas cutting of rail of various sections with contractor's tools & plants, as directed by engineer in-charge:				
12a	064052	Rail section of 52Kg and above	Each	117.00	100	11,700
13	161040	Drilling holes of 16 mm to 32 mm dia. with Rail Drilling machine including chamfering with appropriate chamfering tools in all types of rail section with contractor's tools & plants, equipment, consumable with all lead & lift etc. complete, as directed by Engineer in-charge. Rail Drilling Machine will be as per RDSO Specification No. TM/SM/3, dated 24.04.1991.				
13a	161041	Outside Track	Each	53.00	5000	2,65,000
14	183020	Fabrication including cutting, bending/machining and fixing of check rails of all rail sections over PSC Sleepers as per Railway"s approved drawings & specifications for level crossings / trolley paths/inspection lines in yards duly cutting rail flanges, wherever required to correct alignment and level, drilling of holes with machine in check rails and fixing to Running rail and sleepers with all Railway's fittings, e.g. rail screws / grip expansion bolts, brackets, packing pieces, bolts, washers etc including grinding of brackets if required, fixing of Railway's wooden blocks at flare ends duly cutting and plaining, crossing of tracks and as directed by the engineer in-charge. Note: 1. Drilling of holes in PSC Sleeper and fixing of dowels shall be paid under relevant item. 2. Required P.Way materials will be supplied at SSE/P.Way stores	TRM	995.00	200	1,99,000

15	211030	Fabricating of check rails of 52Kg and 90R sections for providing to curves by cutting web of rail horizontally by gas, grinding for smoothening the cut edge and drilling of parabolic shaped holes to the web of check rails as per drawing and specification and as per directions of engineer in-charge with all contractor‟s labour, tools and materials complete. Note: 1. Rails shall be supplied by Railways. 2.The both ends of head of check rails are to bent/cut as per drawing. 3. The released rail scrap shall be stacked neatly with in a lead of 500m. 4. Drilling of holes shall be paid under relevant item.	RM	176.00	800	1,40,800
16	211050	Fixing of check rails on curves on track of all rail sections as per drawing and to correct alignment and level with Railways fastenings including leading of rails and fittings, crossing of tracks, greasing of plate screws with approved grease etc., as per drawing and directions of Engineer in charge with all contractors' labour, tools, plants, machinery, consumables etc., complete. Note: Required P.Way fittings will be supplied at SSE/P.Way stores.	RM	69.00	800	55,200
17	194010	Manufacture of flared portion of Guard Rail by cutting and bending to required shape & RDSO‟s approved drawings. Note: (1) Rails shall be supplied by Railways. (2) One set consists of two rails i.e. both left and right.	Set	3740.00	6	22,440
18	194020	Providing and fixing of flared portion of guard rails of any rail section over PSC sleepers including fixing of with all fittings, including leading of rails and fittings, squaring and adjusting spacing of sleepers as required, providing nose blocks duly cutting wooden blocks supplied by railways and fixing it with bolts of 16mm dia as directed complete and finished as per RDSO‟s approved drawing. Note: 1.One set consists of LH & RH side rails of one end. 2.Required P.Way fittings will be supplied at SSE stores depot.	Set	3440.00	6	20,640

19	186180	Fixing of grip expansion bolts of 18mm / 22mm dia. with nuts and MS clips / washers on PSC sleepers as per specifications for fixing guard rails / check rails / trolley path including drilling of required holes in sleepers with all fittings with contractor's tools & plants, equipment, consumables with all lead, lifts etc. complete, as directed by Engineer in-charge, excluding cost of bolts, nuts, washers, clips etc.	Each	131.00	6000	7,86,000
20	083010	Lifting and packing for regarding the existing PSC sleeper track to required height / level in stages not exceeding 75mm or part thereof at a time, providing permissible ramp for the track, insertion of moorum / sand / stone ballast uniformly under the existing track and placing the same to safe approved gradient, gauge, cushion including levelling and one round of through packing to allow train movement at restricted speed of 30 kmph for a specified length with all leads & lifts and fixing, marking, painting rail level pegs at every 30m interval. Note: Lifting of track shall be done in stages as per procedure prescribed in latest edition of IRPWM to get the proposed final level as per approved working profile, as directed by Engineer incharge.	TRM	167.00	5000	8,35,000
21	083011	Extra for additional lift over 75mm for every 50mm lift or part thereof up to 275mm for item nos. 083010 for each TRM.	TRM	25.00	5000	1,25,000
22	073020	Lifting the newly inserted BG 60 Kg. / 52 Kg. turnouts/ trap switches to required level to provide full ballast cushion as per approved drawings after initial laying with Railway's stone ballast in convenient stages including one round of through packing after completion of final stage of lift, levelling, aligning, gauging and boxing to standard profile to make it fit for 20 kmph with all lead and lifts, complete in all respect and as directed by the Engineer in-charge. Note: 1. The item shall be used only when UNIMAT is not available for the work before the turnout is opened for operation. 2. Leading and dumping of ballast will be paid separately under relevant item.				
22a	73021.00	For 1 in 8½ Points & Crossing	Set	7337.00	12	88,044
22b	073022	For 1 in 12 Points & Crossing	Set	9258.00	15	1,38,870

22c	073023	For 1 in 16 Points & Crossing	Set	11819.00	1	11,819
22d	73024.00	For Derailing Switch	Set	5417.00	9	48,753
23	155010	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, screening and replenishment of ballast at mud pumping / 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 ballast Note: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				
23a	155013	New Line Section, not opened for traffic	TRM	9.00	63000	5,67,000

24	156030	Carrying out pre-tamping, during tamping and post-tamping works prescribed in current version IRTMM/IRPWM for tamping of Turnouts of all types Under Conditions not requiring Traffic Block.				
24a	156031	1 in 8½ Turnouts	Set	5219.00	24	1,25,256
24b	156032	1 in 12 Turnouts	Set	6073.00	30	1,82,190
24c	156033	1 in 16 Turnouts	Set	7894.00	2	15,788
24d	156034	Derailing Switch	Set	1922.00	18	34,596
25	137010	Anti-corrosive painting of rail outside track on rail bottom, web, foot and fishing plane with two coats of thickness of 100 microns each by bituminous black paint confirms to IS-9862 of reputed make including surface preparation, as a complete job as per procedure prescribed in latest edition of IRPWM.				
25a	137011	For 60 Kg Rails	RM	49.00	45000	22,05,000
25b	137012	For 52 Kg Rails	RM	44.00	8000	3,52,000
25b	084010	Loading Railway's ballast, collected at yard / depot into Railway's BOB / BKH / any other type of open wagon, using Mechanical Loader or any other method with all lead and lifts, as directed by Engineer in-charge.	cum	40.00	12000	4,80,000
26	084040	Unloading of ballast from Railway's Hopper Wagons, quantity distribution as per pre-defined site requirement, clearing infringements/jammed ballast, distributing the unloaded ballast uniformly over the track, profiling and boxing following all prescribed safety norms.				
26a	084042	Under Conditions not requiring Traffic Block	Cum	37.00	12000	4,44,000

27	083040	Removing, screening and salvaging ballast from track, duly digging / scarifying ballast by beaters / wire brushes or any mechanical means, leveling and dressing formation with specified cross slope after salvaging ballast, separating muck by screening the salvaged ballast with contractor's 20mm size sieve, stacking of screened ballast for measurement, disposing off muck at specified locations with all lead & lifts as directed by Engineer in-charge. Note: Payment shall be made for quantity of ballast stacked after screening of retrieved ballast from track.	Cum	288.00	4000	11,52,000
28	063110	Lubrication of gauge face of rail on curves, cross overs, points & crossings, turn-in curves and at locations as required with contractor's grease graphite grade "O" IS 408 and as directed.	RM	6.00	10000	60,000
29	211250	Manufacturing and fixing buffer stop with Railway supplied rails, cutting, including bending of rails as per plan ,with all contractor‟s labour, materials, tools, plants etc. and all lead and lift including crossing of track where necessary and as directed by Engineer in charge at site. Note: Excavation, fixing rails in cement concrete, drilling of holes will be paid separately.	Each	15159.00	20	3,03,180
30	186170	Fixing of wooden blocks of approximate size of 150mm x 300mm x 1200mm on end of check rails including sizing at level crossings with contractor's labour, tools & plants and as directed.				
30a	186172	With Contractor‟s hard wood block	Each	3163.00	10	31,630
31	211260	Manufacture and supply of Precast Kilometer Posts of size 1.15 x 0.50 x 0.075 m in RCC 1:2:4 mix, engraving letters and leading to work spot, fixing in position with CC 1:3:6 concrete duly making pits of size as required, painting the post, writing the letters on both sides of the post with 2 coats of enamel paint of approved quality to the Railways drawings/IRPWM with contractor's materials, cement, steel, labour, tools, plant, with all lead and lifts etc., complete as per specifications and as directed by the Engineer-in-charge. Note: Excavation, Concrete and steel work will be paid under relevant items.	Each	381.00	20	7,620
32	211280	Manufacture and supply of Precast Hectometer/TP Repeater posts of size 0.90Mx0.30 mx0.30Mx0.30M Triangular size in RCC 1:2:4 mix, engraving letters, leading to work spot, and fixing in	Each	177.00	190	33,630

		position with CC 1:3:6 concrete, duly making pits of size as required, painting the post with two coats, letters on the both sides of posts with enamel paint of approved quality as per IRPWM/Railways drawings complete with contractor's materials, cement, steel, labour, tools, plant, with all lead and lifts etc., complete as per specifications and as directed by the Engineer-in-charge. Note: Excavation, Concrete and steel work will be paid under relevant items.				
33	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 450mm x 300mm duly fixed with MS frame of 25mm x 25mm x 3mm angle welded to 50mm x 50mm x 3mm MS angle, 1000mm long post split and bent 100mm 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	1103.00	150	1,65,450
34	211060	Supply and fixing in position pre-cast cement concrete Fouling Mark as per approved drawing at station yard, duly painting the top surface and slopes with white enamel paint in two coats and inscribed letters with black of Fouling Mark, complete in all respects with all labour, materials including cement, tools and plants etc.	Each	443.00	75	33,225
35	202020	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 approved by Engineer In-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 @ 20 cm c/c to back-support frame of M.S. angle iron of size 25mm x25mm x				

		3mmprovided all along the edges of board withtheft resistant measures back side of board shall be with non-peelable weatherproof 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.				
35a	202021	Caution Indicator Board of size 1400mmx400mm with back support frame fixed to vertical post of MS angle of size 50mmx50mmx6mm of 3650 mm long	Each	6100.00	40	2,44,000
35b	202022	Speed Indicator Board of equilateral triangular shape having each side of 1000mm with back support frame fixed to vertical post of MS angle of size 50mmx50mmx6mm of 3650 mm long	Each	5224.00	40	2,08,960
35c	202024	Termination Indicator Board of Circular shape having diameter of 1000mm with back support frame welded to vertical post of MS angle of size 50mmx50mmx6mm of 3950 mm long	Each	7537.00	40	3,01,480
36	202011	Bilingual Whistle Boards for level crossing of size 600mm x 600mm of each board with back support frame welded to vertical post of MS T section of size 75mm x 75mm x 6mm x 3950mm	Each	7338.00	10	73,380
37	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 MS T section of size 80mmx80mmx8mmx3650mm	Each	6705.00	10	67,050
38	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	6164.00	10	61,640
39	211020	Erection or removal of temporary Engineering Indicator Board or any other board at specified locations without causing infringement to track etc., complete and as directed.				
39a	211021	For erection	Each	238.00	150	35,700
39b	211022	For removal	Each	193.00	150	28,950

40	137070	Marking, inscribing, painting, writing, bordering etc. on new / old iron surface at various locations of Points & Crossings with details of turn-in / turn-out reference station mark on rail web for one set, duly preparing surface with contractor's wire brush and applying two coats of yellow synthetic enamel paint of approved quality as background and stenciling the details to suitable size, as described for every curve reference station mark / switch / crossing details with black enamel paint of approved quality complete, as directed : Note: Stencilling of letters is only permitted. No hand written letters are accepted.				
40a	137073	1 in 8½ Turnout	Set	767.00	24	18,408
40a	137072	1 in 12 Turnout	Set	1191.00	30	35,730
40b	137071	1 in 16 Turnout	Set	1792.00	2	3,584
40b	137074	Derailing Switch	Set	383.00	18	6,894
41	137080	Painting 2 coats to various P.Way Reference Post, Structures etc. with enamel paint of approved make with 2 coats of different colours & letters, as directed by Engineer in-charge.				
41a	137090	Curve details, SE, Versine, Station Nos. etc. per station.	Each	52.00	800	41,600
42	163030	Extraction of jammed ERC by Heavy Duty Hydraulic Extractor with contractor's tools & plants, equipment, consumable with all lead & lift etc. complete, as directed by Engineer in-charge. Heavy Duty Hydraulic Extractor for jammed ERCs (10 Ton capacity) shall be used as per RDSO's Specification No. TM/SM/6, dated 8.05.1991.	Each	33.00	6750	2,22,750
43	063130	Scattered renewal or replacement of missing / worn-out fittings with Railway's fittings for track/Points & Crossings sleepers including leading to required location for the work and the released fittings shall be collected and neatly stacked, as directed by the Engineer In charge. Note: New fittings shall be supplied from and released material shall be deposited at, nearest P.Way Stores.				
43a	063131	GRSP	Each	20.00	2000	40,000

43b	063132	ERCs	Each	7.00	2000	14,000
43c	063133	Metal/GFN Liners	Each	5.00	4000	20,000
44	186190	Erecting detonator rail posts at required locations as required including cutting the rail to required length varying from 1.00M to 1.50M , leading the rail pieces from nominated station / mid section from nearest depot to site of work, erecting the rail post by making the pit size as required and filling with CC 1:3:6 mix with 40mm aggregates and painting the rail post with two coats of synthetic enamel paint of approved colour and make, marking of detonator symbol as per site requirement, with contractor's materials, labour,paint, all lead and lifts, etc., complete as per specifications and as directed by the Engineer-in-charge. Note: Excavation and concrete work for foundation will be paid under relevant item.	Each	386.00	20	7,720
45	186200	Erecting Emergency Chain Posts for level crossings , including cutting rail to required length varying from 1.00M to 1.50M , drilling holes, providing hooks & links / rings with necessary locking arrangements to fix emergency chain, leading the rail pieces from nominated station / mid section from nearest depot to site of work, erecting the rail post by making the pit of size as required and filling with CC 1:3:6 mix with 40mm aggregates and painting the rail post with two coats of synthetic enamel paint of approved colour and make, with contractor's materials, labour, paint, all lead and lifts, etc., complete as per specifications and as directed by the Engineer-in-charge. Note: (1) Rails & chain will be supplied by Railways. (2) Excavation and concrete work for foundation will be paid under relevant item.	Each	462.00	10	4,620
46	186160	Manufacturing, supplying and fixing Wicked Gate of size 1025mm x 1025mm x 1000mm at manned level crossings, as per approved drawing including painting with 2 coats of specified enamel colour paint over 1 coat of primer including earthwork in excavation etc. complete, as per specifications and as directed	MT	111947.00	2	1,79,115

47	181050	Dismantling existing lifting barrier and other components except winch assembly, like boom, fringes, locking arrangements, pedestal, boom rest, locking rods/wires, pulley stakes, turn out wheels, 'A' base and other materials connected with functioning of lifting barrier without any damage including demolishing concrete base of existing structures and clearing debris in a neat and stacking in a countable manner and clear of infringements, as directed. Note: Barriers on both sides of level crossing constitute one set	set	16071.00	4	64,284
48	186210	Providing Rail Barricading with rails supplied by Railways with verticals provided at every 1.5m interval, height of barricade being up to 1.5m above ground / termination level and one or more row of horizontal rail, duly cutting rails and drilling holes as required, assembling necessary accessories to required length, including earthwork excavation for foundation, fixing posts in cement concrete 1:3:6 base of size 0.45m x 0.45m x 0.60m and one coat of red oxide painting of steel work. Note: 1. Excavation and concrete work will be paid separately. 2. Rail shall be made available within 250 metres	MT	1482.00	50	74,100
49	136010	Fixing Joggled Fish Plates with bolt / clamp (supplied by Railway 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).				
49a	136011	With 2 bolts	Set	102.00	100	10,200
49b	136012	With 4 bolts	Set	114.00	50	5,700
49c	136013	With Clamps	Set	146.00	500	73,000
50	022010	Earthwork in excavation by mechanical means (Hydraulic Excavator)/Manual Means for foundations and floors of the bridges, retaining walls etc. including setting out, dressing of sides, ramming of bottom, getting out the excavated material, back filling in layers with approved material and consolidation of the layers by ramming and watering etc. including all lift, disposal of surplus soil up to 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. Note: This item will be used for excavation work in connection with other miscellaneous works also like side drains, foundation for OHE masts and other miscellaneous structures in connection with Gauge Conversion, Doubling, New lines.				
50a	022011	All kinds of soils	Cum	194.00	1000	1,94,000
51	025070	Supply and using Cement at Worksite				
51a	025072	Ordinary Portland Cement 53 grade of approved brands/makes	MT	7556.00	6	45,336
52	022030	Providing and laying in position Plain cement concrete of specified Nominal Mix for miscellaneous works like side drains, foundation for OHE masts and other miscellaneous structures excluding the cost of Cement, centering and shuttering - All work up to plinth level :				
52a	022032	1:2:4 (1 cement: 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	Cum	2826.00	20	56,520
52b	022034	1:3:6 (1 Cement: 3 coarse sand (zone-III): 6 graded stoneaggregate 20 mm nominal size)	Cum	2906.00	20	58,120
53	123030	Spreading of ballast, from existing stacks available along formation on top or at cess, in required uniform thickness, compaction of ballast layer laid on new formation at all the locations with smooth wheeled power roller of 8-10 tonne capacity to sufficient number of passes to form consolidated ballast bed of approximately 250mm thickness to a width of 4m symmetrical to centre line of proposed track in correct line & level with all ascents & descents, as directed by Engineer in-charge. Note: Item is inclusive of (a) providing ramp for taking roller to formation and removing the same & making good formation after completion of work; (b) redistribution & levelling of excess ballast while rolling to obtain uniform plane cambered surface.	Cum	44.00	73600	32,38,400
54	136040	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.				
54a	136041	One mobile Gang comprising of 15 physically fit labours plus 1 Mate. Note: (1) In case, contractor provides less no. of Labour/Mate or for non-availability of vehicle, payment will be deducted for each such person or non-availability of vehicle @ 20% of the accepted item rate, separately for each shortfall. (2) The Contractor shall keep one pickup Truck of minimum 1.5T payload capacity with Driver all the time and all expenditures for running at an average of 80 kms per day shall be borne by the Contractor.	Gang Day	13132.00	180	23,63,760
54b	136042	One mobile Gang comprising of 20 physically fit labours plus 1 Mate. Note: (1) In case, contractor provides less no. of Labour/Mate payment will be deducted for each such labour @ 10% of the accepted rate.	Gang Day	14345.00	180	25,82,100
55	211210	Arranging labour as and when required by the Engineer in charge, for various works under SSE/P.Way, 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 in charge. Note: Item shall be operated with prior approval of concerned Sr. DEN / DEN in charge	Day	654.00	500	3,27,000
56	124020	Working of the Railway Push Trolley by arranging one Head trolly man along with 3 trolly men as per Railway's rules and stipulations for conducting inspections by Railway officials and as directed by Engineer in-charge. Note: 1) Labourers supplied should be of skilled in case of head trolly man and semiskilled in case of trollymen and capable of pushing trolley in all gradients, and levels duly observing all safety precautions as per the manual. 2) The labour engaged should be physically fit for strenuous work, literate and meeting prescribed medical category.				
56a	124021	For Full day (8 hrs)	Each	3205.00	30	96,150

56b	124022	For Half day (4 hrs)	Each	2063.00	30	61,890
57	124030	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 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.				
57a	124031	For one shift (12 Hrs)	Each	1149.00	150	1,72,350
58	144030	Providing an assisting gang comprising of 6 men per day with SSE/P.Way/ USFD for carrying out ancillary works viz., lookout, watering, paint marking and handling machine for USFD test with Double Rail Tester (DRT) machine and as directed by Engineer in charge. Note: 1. This item shall be operated only when there is no departmental staff available and only with the prior approval of concerned Sr. DEN/Co-ordination. 2. In case, contractor provides less no. of Labour, payment will be deducted for each such person @ 1/3 rd of the accepted item rate.	Gang Day	3855.00	30	1,15,650
59	151100	Guarding and watching the Track machine / group of machines, spare parts, oils, grease etc. of PQRS cranes (one set of 2 portals) during day and night time in a shift of 12 hours each, at all locations wherever necessary, as instructed by the machine in-charge. Note: One shift comprises of 12 hours.	shift	754.00	100	75,400
60	157030	Providing lighting arrangements with halogen lamps on and around machine during machine working in night time blocks, with contractor's generator, consumables, all necessary electrical fittings, operators etc. Note: 1. Lighting arrangement is to be provided as per advance planning of Night Blocks and written communication. 2. In case lighting arrangement is made available but not used due to non-availability of block, payment @ 60% of the item rate shall be made. 3. In place of Halogen, LED lamps of				

		equal lumen capacity may be used with the approval of Engineer -in-Charge. 4. If lighting arrangement fails during block, recovery shall be made twice the rate per day.				
60a	157031	BCM/FRM/UNIMAT (7.5 KVA generator and 12x500 W)	Each Night	4503.00	30	1,35,090
60b	157032	CSM/DUO	Each Night	4015.00	30	1,20,450
60c	211070	Providing and erecting water proof Gypsy Tent of size 3m x 3m for a specific period of time and removal of the same after completion of work or as directed by Engineer in-charge.	Day	472.00	60	28,320
61	211080	Providing furniture temporarily at site work in good condition at different locations as per direction of Engineer In-charge and removing the same after completion of work.				
61a	211081	Office Table of size 1.2m x 0.9m per day	each	44.00	60	2,640
61b	211082	Office Chairs with cushioned seat, back and arms per day	each	21.00	120	2,520
62	171010	Loading of rails of any section and length up to 13 metres in Wagons/ Truck / trailer including lead up to 50 metres and lift up to 5 metres.				
62a	171014	In Wagon where mechanical not required or in Truck/trailer. handling is possible and traffic block is	MT	120.00	600	72,000
63	171050	Unloading of rails of any section and length up to 13 metre, in neat manner for Railway usage from departmental material train (DMT) or contractor's / Railway's Truck/trailer including lead up to 50 metre, lift up to 5 metre and stacking in prescribed manner.				
63a	171053	From Wagon where mechanical handling is possible and traffic blocks not required or in Truck / trailer.	MT	89.00	600	53,400
64	172010	Loading of 52kg / 60kg PSC normal line and special sleepers up to 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 up to 250 metre and lift up to 5 metre, 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.				
64a	172014	In Wagon where mechanical handling is possible and traffic block is not required or in Truck / trailer	MT	93.00	13363	12,42,759
65	172060	Unloading of 52kg / 60kg PSC line and special sleepers up to 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 up to 250 metre & lift up to 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.				
65a	172063	From Truck / Trailer	MT	86.00	13363	11,49,218
66	172020	Loading of 52kg / 60kg PSC line and special sleepers beyond 2.75 metre length including existing fittings and fastenings 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 up to 250 metre and lift up to 5 metre, 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.				
66a	172024	In Wagon/Truck / trailer where mechanical handling is possible and traffic block is not required.	MT	117.00	2140	2,50,380
67	172070	Unloading of 52kg / 60kg 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 up to 50 metre & lift up to 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.				
67a	172073	From Truck / Trailer	MT	90.00	2140	1,92,600
68	172050	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.				
68a	172051	Lead up to 5 Km	MT	51.00	10000	5,10,000
68b	172052	Lead beyond 5 Km and up to 10 km	MT	91.00	6000	5,46,000
68c	172053	Lead beyond 10 Km and up to 20 km	MT	146.00	500	73,000
68d	172054	Lead beyond 20 Km and up to 30 km	MT	214.00	500	1,07,000
68e	172055	Lead beyond 30 Km and up to 50 km	MT	308.00	500	1,54,000
68f	172056	Lead beyond 50 Km and up to 100 Km	MT	513.00	650	3,33,450
68g	172057	Lead beyond 100 Km and up to 150 Km	MT	820.00	13845	1,13,53,195
68h	172058	Extra for every Km per MT beyond 150 Km over item no. 172057	MT Km	3.00	6230412	1,86,91,236
69	172040	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.				
69a	172043	Lead beyond 10 Km and up to 20 km	MT	253.00	50	12,650
69b	172044	Lead beyond 20 Km and up to 30 km	MT	321.00	50	16,050
69c	172045	Lead beyond 30 Km and up to 50 km	MT	415.00	200	83,000
69d	172046	Lead beyond 50 Km and up to 100 Km	MT	620.00	1000	6,20,000

70	211200	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.				
70a	211201	JCB Backhoe Loaders 3DX Plus or similar with minimum 1.10 cum bucket capacity	Hour	774.00	500	3,87,000
70b	211202	Hydra or similar tyre mounted Pick-n-Carry crane of 12T capacity for misc. works of handling of material	Hour	978.00	250	2,44,500
70c	211203	Tractor with Trolley for local transportation or other misc. works.	Hour	150.00	300	45,000
71	173010	Unloading of Switches / Crossings / SEJ Rails / Glued Joints of any rail section and length with or without P.Way fittings & fastenings in neat manner for Railway usage from departmental material train (DMT) or contractor's / Railway's Truck/Trailer with lead up to 250 metre & lift up to 5 metres.				
71a	173012	From DMT - Not involving traffic block or on lines, not opened to traffic	MT	156.00	200	31,200
72	171020	Loading of tongue rail, stock rail, switch assembly and crossings of any section and length, SEJ, Glued joint etc. with / without P.Way fittings and fastenings, in Wagon / Truck / trailer including lead up to 250 metre and lift up to 5 metre.				
72a	171024	In Wagon where mechanical handling is possible and traffic block is not required or in Truck/trailer.	MT	118.00	400	47,200
73	142010	Carrying out USFD testing of Alumino Thermic (AT) welds on all types of rails, using 0° (2 MHz) double crystal; 70° (2 MHz) 20mm x 20mm single crystal probe for head & flange testing; 2 nos. 45° (2 MHz) single crystal with tandom rig for testing from rail top to bottom & for half moon testing and 70° (2 MHz) 20mm x 20mm side looking probe by NBC (Need Based Concept) 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.				
73a	142011	Track having up to 3 rail panels - With Contractor's USFD machine	Each	175.00	500	87,500
73b	142012	Track having more than 3 Rail panels - With Contractor's USFD machine	Each	161.00	1000	1,61,000
74		Miscellaneous items under USSOR 2022 / any other SOR's not covered under original scope of work.	LS	3000000.00	1	30,00,000
Total of Schedule "L2"						**7,07,97,021.40**

Schedule "M": Linking of Track (Non USSOR Items)

Sl no.	Item Code	Description of Items	Unit	Rate	Qty.	Amount
1	PWNB-011a	(i) Leading and dumping of Railway's stone ballast without rail traffic block from stacks collected on either side of formation in mid-section / at yards at top of steep cuttings / side or bottom of high banks : **for a lead up to 150 m**	cum	92.00	5000	4,60,000
2	PWNB-011b	For boxing to sectional profile for a lead up to 150 m	cum	46.00	5000	2,30,000
3	PWNB-011c	For fully salvaging all the ballast at stack locations / that fallen in drains / side slopes of formation etc. and dumping the same uniformly in track up to a lead of150 m	cum	16.00	5000	80,000
4	PWNB-011d	For dumping of ballast on track for lead more than 150 m and up to 750 m	cum	160.00	10000	16,00,000
5	PWNB-011e	For boxing to sectional profile for a lead more than 150 m and up to 750 m	cum	46.00	10000	4,60,000

6	PWNB-011f	For fully salvaging all the ballast at stack locations / that fallen in drains / side slopes of formation etc. and dumping the same uniformly in track up to a lead more than 150 m and up to 750 m	cum	16.00	10000	1,60,000
7	PWNB-011g	For dumping of ballast on track for lead more than 750 m and up to 5000 m	cum	171.00	58600	1,00,20,600
8	PWNB-011h	For boxing to sectional profile for a lead more than 750 m and up to 5000 m	cum	46.00	58600	26,95,600
9	PWNB-011i	For fully salvaging all the ballast at stack locations / that fallen in drains / side slopes of formation etc. and dumping the same uniformly in track up to a lead more than 750 m and up to 5000 m	cum	16.00	58600	9,37,600
10	PWNB - 009	Setting out centre line for alignment of track in straight without rail traffic block using contractor's total station equipment and;	track km	7448.00	21	1,56,408
11	PWNB - 010	Setting out centre line for alignment of track in curve without rail traffic block using contractor’s total station equipment and;	track km	8125.00	10	81,250
12	K-14	Supply and providing safety chains of 8mm thick MS links for manned level crossing	M	554.00	100	55,400
13	NS-21	Manufacturing supplying & fixing Trolley Refuge Indicator Boards / Level Crossing No. Boards, made of MS sheet of 2mm thick of size 300mmx400mm. and 40mm x 40mm x 5mm angle, welded to MS sheet, duly painting with 2 coats of ready mixed yellow enamel paint over one coat of red oxide with all lead & lift as per specification and as directed by Engineer in-charge	Nos	1598.00	120	1,91,760
		(i) Rail renewal for non running line/without rail traffic block during day/Night of the existing single rail track on main line/loop line with 60kg/52kg-single rails,3 rail panels/10rail panels/20 rail panels duly leading rails from stacks available on formation/top of cutting/bottom of bank-near level crossings/in mid section/in the yard-on either side of the alignment up to a lead of 1 (one) Km duly removing the fishplates, bolts, and nuts, ER clips etc., of the existing track, removing the existing track, pairing and butting the joints of new rails (or the rails with which renewal is being done), fixing corresponding matching fittings and fastening like GFN liners/ metal liners, ER sole plates, fishplates,				

		bolts and nuts etc., duly greasing the fish plates and bolts with contractor's grease no. 0 graphed (conforming to IS : 408-1981 and procured from RDSO approved firms)				
		(ii) stacking the released rail(s) at the specified locations up to a lead of 1 (one) Km all of the above shall be executed with contractor's skilled personal, tools and plant, vehicles, machinery, fuel, consumables loading, unloading with all incidental charges and in all kinds of weather and site conditions including crossing of tracks wherever requires duly observing all safety precautions and including all ascent, descent, taxes,duties,cess,surcharges,fees etc. completely as per the special conditions/specifications/regulations, as directed by the Engineer-in-Charge and per the note below : Notes:1. The rate includes transporting, leading and stacking of the released rails properly in a countable manner. 2. Greasing of ERCs and inner surface of MCI inserts, if done, will be paid separately under relevant item. 3. The limit of 1)one) km for lead does not apply to yards. The rate includes any lead with in yard limit. 4. Track fittings like ERCs,liners, fish plates, rubber pads etc. may have to be brought from the nearby yards/mid-section/pway depo. No additional payments shall be made for the same. 5.The rate includes transporting the released fittings and fastenings to the specified p-way depo and stacking. 6. Lead of rails9new or released) beyond 1(one)km shall be paid separately. 7.The rate includes engaging lookout men and banner flag men with hand flags and banner flags respectively.	track metre	108.00	18000	19,44,000
14		Supply of Motor Bike 150CC or more as per relevant Special Condition.	Per Month	7589.00	24	1,82,136
15		Providing road vehicle(s) with skilled and professional Driver(s) cum Attendant(s) in Bengaluru, its suburban areas and nearby cities and towns as per the criteria/ stipulations/specifications/conditions and with the penalties mentioned underneath, in the notes. 1) Very well-maintained and in excellent running condition with a total run of less than 50,000 (fifty-thousand) km from the date of registration and registered within 2 (two) years from the date of opening of tender, 2) With				

		efficient suspension system of the standard expected for the class of the vehicle specified; with airbags (front airbags for front and rear seats mandatory for the vehicles, side airbags and side curtain airbags desirable) 3) With experienced, sensible, literate, smart, smart-phone-literate, decent, polite and well-behaved Driver(s) cum Attendant(s) well versed with Bengaluru and surrounding areas.				
		Notes:1) The rate quoted shall be inclusive of GST, all other taxes, all permits, all govt. charges (except toll, parking) etc.; salaries, daily allowances, food charges, night halt charges, stay charges for night halt and all other allowances of main driver, fuel, lubricating oils, all consumables, wear and tear, all expenses in maintaining the vehicle, suspension system, accessories etc. in good working condition; all incidental expenses; 2 (two) sets of white (or any other approved colour) uniforms to the drivers; 2 (two) sets of white (or any other approved colour) seat covers properly fastened to the seats; 2 (two) sets of white (or any other approved colour) head-rest-covers; 2) The rate quoted shall be for 3000 km run in a month, 26 days working in a month and 12 hours a day. Extra distance, extra days and extra hours will be paid separately. 3) The approximate number of vehicles to be supplied is 5 (Five). This is only indicative. The actual number may vary every day / every month as per the requirement. Extra vehicles will be paid separately. Very Important Note: It is advised to go through all the ASC (Additional Special Conditions) for a clear understanding of the nature of professionalism expected and the penalties				
15a		Providing Maruti Suzuki Dzire/ETIOS or similar approved road vehicle(s) excluding GST	Vehicle month	41274.00	24	9,90,576
15b		For extra kilometre after 2500 KM/month for each vehicle	Per KM	15.00	2000	30,000
15c		For extra hour if a vehicle runs more than 300 hrs. per month	Per hour per vehicle	220.00	1200	2,64,000

15d		If a driver works more than 26 days in a month. Hours worked on these days will be added to total hours worked in a month for the purpose of payment of additional hours as per condition (c) above(beyond 300hrs,per month).Kilometre travelled on this day will be added to total kilometre of that vehicle, for the purpose of payment as per the note (a) & (b) above(beyond 2500 Km).	Per day per Vehicle	1500.00	120	1,80,000
Total of Schedule "M"						**2,07,19,330.00**

"Baiyyappanahalli - Hosur Doubling Project: Linking of BG Track with Allied Works and Manufacturing, Supply & Stacking of Machine-Crushed Track Ballast conforming to RDSO Specification (IRS-GE-1) from Km 197/900 to Km 205/500 between Belandur Road (Excl.) and Baiyyappanahalli "A" Cabin (Incl.) in Bengaluru Division of South Western Railway".

ABSTRACT		
Name of Work: "Baiyyappanahalli - Hosur Doubling Project: Linking of BG Track with Allied Works and Manufacturing, Supply & Stacking of Machine-Crushed Track Ballast conforming to RDSO Specification (IRS-GE-1) from Km 197/900 to Km 205/500 between Belandur Road (Excl.) and Baiyyappanahalli "A" Cabin (Incl.) in Bengaluru Division of South Western Railway".		
Schedule	**Description of Schedule**	**Amount in Rs. (excl GST)**
Sch "L1"	Linking of Track under Traffic Block condition (Items Covered Under USSOR-2022)	72,43,182
Sch "L2"	Linking of Track under Non-Traffic Block condition (Items Covered Under USSOR-2022)	3,83,50,665
Sch "M"	Linking of Track (Non USSOR Items)	86,67,291
Sch "H"	Supply of Ballast	3,97,50,000
Total		**9,40,11,138**

Schedule "L1": Linking of Track under Block Conditions (Items Covered Under USSOR-2022)

Sl No	USSOR No.	Description of Items	Unit	Rate	Qty	Amount
1	171060	Unloading of rails of any section and length from 13 metre to 39 metre, in neat manner for Railway usage from departmental material train (DMT) including lead up to 50 metre and lift up to 5 metre.				
1a	171061	During period of traffic block	MT	172.00	50	8,600
2	171070	Unloading of all type of rails of length 130 metre and beyond from end unloading rake and keep the panels in head-up position at specified distance from centre of track clear from any infringement. Note: Contractor has to keep Oxygen and Acetylene gas with cutter as standby during the period of work.				
2a	171071	During Period of traffic Block	MT	28.00	500	14,000
3	122010	Shifting & pairing of rails / panels unloaded alongside existing running track to adjoining formation of a new line including crossing of one track, duly lifting & pushing rail / panel without damaging it and taking all necessary precautions, so as not to infringe the running track, as directed by Engineer in-charge. Note: The rail barricading, if disturbed during working, should be restored to its original condition by the agency including re-fixing & concreting as required.				
3a	122013	For rails/panels of more than 13m and up to 40m length - Under Traffic Block	RM	27.00	520	14,040
3b	122015	For rails/panels of more than 40m length - Under Traffic	RM	40.00	12000	4,80,000
3c	122018	Extra over item No 122013 for crossing each additional line	RM	3.00	1040	3,120
3d	122019	Extra over item No 122015 for crossing each additional line	RM	4.00	24000	96,000
4	061020	Dismantling and removing rail of all section & length from track, laid on any type & density of sleeper by removing fish plates,				

		fastenings & fish bolts and other materials including stacking all released materials within 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.				
4a	061021	For Through Rail Renewal work	TRM	42.00	2000	84,000
5	062010	Through Sleeper Renewal (TSR) with PSC sleepers involving removal existing sleepers of any type along with fittings from track, insertion of PSC sleepers lying along the cess / formation / slope / toe within 5 metres height with all fittings to specified spacing, gauge and squareness, one round of through packing to make track fit for 20 kmph speed, dressing of ballast to standard profile, all in accordance with the latest provisions of IRPWM and stacking of all released material neatly at specified places within an average lead of 100 m as directed by Engineer in-charge.				
5a	062013	For PSC wider base sleepers - For location of work not involving deep screening	Each	333.00	300	99,900
6	072030	Assembling on temporary staging and insertion of all types of turnouts including diamond crossings and derailing switches on prepared ballast bed during traffic block, manually or by contractor's cranes, at specified location with 52Kg / 60Kg rail section on PSC sleepers with Railways rails/sleepers available anywhere within 500m as per standard drawing, duly leading sleepers, rails, switches, crossings, fastenings etc. including rail cutting, drilling, fixing of all components, fittings etc. with housing of tongue rails as per requirement of signaling including crossing of track, filling and spreading of ballast in crib and shoulder as required, linking of turnout with existing track, attending track parameters including lifting, providing one round of packing to make track fit for 20 kmph speed including lubrication of fittings/fastenings, complete in all respect and as directed by Engineer in-charge. Note: Required P.Way fittings shall be supplied at the SSE/P.Way stores.				

6a	072032	1 in 12 Turnouts	Set	64139.00	3	1,92,417
7	121010	Dismantling of existing LWR/SWR track of any structure, removing rails, sleepers, fish plates, cutting of rails, segregation and stacking of released Rails, Sleepers and fitting at nominated location in countable manner within a free lead of 500m, levelling of ballast to correct profile for laying new track over it, all as per direction of Engineer-in-Charge.	TRM	167.00	1100	1,83,700
8	071010	Under Traffic Block: Dismantling of existing BG turnouts, diamond crossings and derailing switches with all types of rails and sleeper layout, removing rails, switches, crossings, sleepers & fastenings, leveling of ballast to correct profile & stacking all the released materials, sleepers, fastenings, rails, switches & crossings including segregating & stacking at specified locations in a neat and countable manner, within the lead of 250m & all lift, clear of infringements, crossing of track, if any complete, as directed.Note: 1. This item shall be operated only when existing turnout is replaced either with new turnout in case of TTR or with plain track when existing turnout is no more required at that location. 2. Rail cutting will be paid extra under relevant item. 3. Laying of new turnout or plain track on prepared ballast bed, as required, shall be paid separately under relevant item.				
8a	071011	1 in 8½ Turnout (Under Traffic Block)	Set	28200.00	3	84,600
8b	071012	1 in 12 Turnout (Under Traffic Block)	Set	32440.00	1	32,440
9	065030	Assembling and Laying of Improved Switch Expansion Joint (SEJ) on PSC sleepers of any rail section as per RDSO drawing including leading of SEJ rails, sleepers, fittings for a free lead of 250 metres, cutting of rails, drilling of holes as required and lubrication of SEJ, gauging, aligning rails, providing temporary connection with adequate welding gap with adjoining rails, providing reference posts at SEJ, first through packing of SEJ potion to make track geometry fit for 30 kmph speed and making ballast profile as per IRPWM. Note: (1) Rail cutting and hole drilling shall be paid separately. (2) One set comprise complete SEJ on both rails at SEJ.				

9a	065032	Under traffic Block condition	Set	7064.00	6	42,384
10	136060	Replacing existing glued joint rail with cut rails or with glued joint rail or insertion of glued joint by cutting existing track under traffic condition by cutting rails, refixing with all rail sleeper fastenings and providing required gaps for carrying out welding as an alternative to drilling holes or joining rails with fish plates duly drilling holes as required including stacking of released material and as directed by engineer in-charge.Note: (1) Drilling holes & rail cutting will be paid separately.(2) Transportation of materials to the site of work from supply points, if more than 250m, shall be paid separately.	Each	1691.00	25	42,275
11	161010	Quick cutting with abrasive rail cutter of all types of rail sections including wear resistant, head hardened rails up to 110 UTS, with contractors tools & plants, equipment, consumable with all lead & lift etc. complete as directed by Engineer in-charge. Abrasive Rail Cutter will be as per RDSO Specification No. TM/SM/1 (Rev. 01 of 2012) with latest status of RDSO; Rail Cutting Wheel Abrasive Disc will be as per RDSO Specification No.TM/SM/2 (Rev. 01 of 2020)				
11a	161014	60 Kg - 110/90 UTS - On Running Line	Each	304.00	200	60,800
11b	161015	52 Kg - 90 UTS- On Running Line	Each	246.00	150	36,900
12	064052	Gas cutting of rail of various sections with contractor’s tools & plants, as directed by engineer in-charge :Rail section of 52Kg and above	Each	118.00	50	5,900
13	161040	Drilling holes of 16 mm to 32 mm dia. with Rail Drilling machine including chamfering with appropriate chamfering tools in all types of rail section with contractor's tools & plants, equipment, consumable with all lead & lift etc. complete, as directed by Engineer in-charge. Rail Drilling Machine will be as per RDSO Specification No. TM/SM/3, dated 24.04.1991.				
13a	161042	On Running Line	Each	68.00	500	34,000
14	186180	Fixing of grip expansion bolts of 18mm / 22mm dia. with nuts and MS clips / washers on PSC sleepers as per specifications for fixing guard rails / check rails / trolley path including drilling of	Each	131.00	250	32,750

		required holes in sleepers with all fittings with contractor's tools & plants, equipment, consumables with all lead, lifts etc. complete, as directed by Engineer in-charge, excluding cost of bolts, nuts, washers, clips etc.				
15	083010	Lifting and packing for regrading the existing PSC sleeper track to required height / level in stages not exceeding 75mm or part thereof at a time, providing permissible ramp for the track, insertion of moorum / sand / stone ballast uniformly under the existing track and placing the same to safe approved gradient, gauge, cushion including levelling and one round of through packing to allow train movement at restricted speed of 30 kmph for a specified length with all leads & lifts and fixing, marking, painting rail level pegs at every 30m interval. Note: Lifting of track shall be done in stages as per procedure prescribed in latest edition of IRPWM to get the proposed final level as per approved working profile, as directed by Engineer in charge.	TRM	166.00	500	83,000
16	083011	Extra for additional lift over 75mm for every 50mm lift or part thereof up to 275mm for item nos. 083010 for each TRM.	TRM	26.00	600	15,600
17	155010	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, screening and replenishment of ballast at mud pumping / 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 ballast Note: 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.				
17a	155011	For day time block working	TRM	18.00	20000	3,60,000
17b	155012	For night time block working	TRM	20.00	10000	2,00,000
18	155020	Pre, during & post tamping operations, for tamping of track on level crossing portion on all types of track structure and density, during traffic block, duly opening the road surface by digging up to the required width and up to 50mm below bottom of sleeper to facilitate tamping, removing and refilling ballast, adjustment of deficient ballast if necessary by picking from adjoining track/shoulder/cribs, removing and refixing all inter locking gears interfering, removing and re-fixing of check rails and painting of running rail & check rail with coal tar emulsion, completing road surface to smooth motorable condition after tamping is over, including tightening of loose fittings, replacement of broken/missing fittings, correction of displaced sleepers to correct position and as directed by Engineer in charge.				0
18a	155021	Level crossing with asphalted surface	Sqm	353.00	600	2,11,800
19	156010	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 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 UNIMAT; (4) Digging, screening and replenishment of ballast at mud pumping / rounded ballast in sleeper crib location; (5) Tightening of loose fittings including check rails 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 worked-out / fallen fittings; (9) Removing and re-fixing joggled fish plates & wooden blocks, OHE bonds & other obstructions, wherever necessary ;(10) Removing and re-fixing stretcher bar, 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 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; (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.				
19a	156012	1 in 12 Turnouts (Under Traffic Block Conditions)	Set	10122.00	24	2,42,928
19b	156013	1 in 16 Turnouts (Under Traffic Block Conditions)	Set	13156.00	8	1,05,248
20	156020	Extra Over Item Numbers 156011 to 156015 for night block working				
20a	156022	Extra to Item no. 156012 for night block working	Set	1518.00	12	18,216
20b	156023	Extra to Item no. 156013 for night block working	Set	1973.00	4	7,892
21	135010	De-stressing of LWR/CWR track of any density under traffic line block with contractor's labours, tools, equipment 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 ERCs and liner contact area, lifting rails and keeping them on rollers provided at every 15 sleepers, working out elongation of rail ends depending on prevailing site conditions, pulling rails with the help of Hydraulic Tensor to 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) As per procedure prescribed in latest edition of IRPWM & CE's Circulars for distressing of LWR/CWR, if any.				
21a	135012	With Contractor's Hydraulic Rail tensor	TRM	49.00	500	24,500
21b	135013	Without Rail tensor	TRM	46.00	3000	1,38,000
22	123080	Carrying out cut & connection to the existing PSC sleeper track under line block of any rail section and sleeper density to connect the same to newly linked track which is laid by the side, duly carrying out cutting of rails, insertion of additional PSC sleepers, if required, providing fish plated joints including drilling of holes, slewing required length of both tracks to prescribed alignment, adjusting sleeper spacing, providing continuity to track, spreading of ballast to provide cushion, shoulder ballast to the track stretch, giving one round of initial packing to make track fit for 20 kmph speed and boxing of ballast to profile as directed by Engineer in charge.	Each	59882.00	16	9,58,112
23	123090	Shifting / Slewing the existing or newly assembled track of any rail section with any type of sleepers and any density under line block to correct locations & alignment and attending to one round kutcha packing to run safely at 20KMPH speed with all contractors' tools and consumables complete and as directed by Engineer in-charge.				
23a	123091	Maximum Shifting / Slewing up to 1 metre	TRM	193.00	2000	3,86,000
23b	123092	Maximum Shifting / Slewing for more than 1 metre & up to 2 metres	TRM	231.00	2000	4,62,000
24	084040	Unloading of ballast from Railway's Hopper Wagons, quantity distribution as per pre-defined site requirement, clearing infringements/jammed ballast, distributing the unloaded ballast uniformly over the track, profiling and boxing following all prescribed safety norms.				
24a	084041	Under Traffic Block Conditions:	Cum	49.00	5000	2,45,000

25	136010	Fixing Joggled Fish Plates with bolt / clamp (supplied by Railway 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).				
25a	136011	With 2 bolts	Set	103.00	30	3,090
25b	136012	With 4 bolts	Set	114.00	10	1,140
25c	136013	With Clamps	Set	147.00	30	4,410
26	157020	Carrying out ancillary works required for UTV working under line block i.e., turning of rails/ Sleepers and keeping in position for fixing of UTV clamps to rail, keeping rails/PSC Sleepers in position while loading into BFR, removal of clamps on BFR for releasing loaded rail/Sleepers, adjusting of rails/Sleepers on BFR etc. by providing minimum of three men in a shift of 8 hours, with all contractor's tools, all lead, lift, crossing of tracks etc., complete and as directed by the engineer - in - charge. Note: In case, contractor provides less no. of Labour, payment will be deducted for each such person @ 2/3 rd of the accepted item rate.	shift	2128.00	20	42,560
27	172030	Loading, leading and unloading of PSC Sleepers of 52Kg / 60Kg by Railway's Rail Dolly/ Dip Lorry to the nominated location under traffic in case road carriage is not possible for different leads and lift up to 5 metres.				
27a	172031	For lead up to 500 metres	MT	279.00	100	27,900
27b	172032	For lead beyond 500 metre and up to 1 Km	MT	413.00	100	41,300
28	171030	Loading, leading and unloading of 52Kg / 60Kg rail up to 13 metre length by Railway's Rail Dolly / Dip Lorry to the nominated location under traffic with line protection in case road carriage is not possible with different lead with a lift up to 5 metre during block period.				
28a	171031	For lead up to 500 metre.	MT	358.00	40	14,320
28b	171032	For lead beyond 500 metre and up to 1 Km.	MT	461.00	40	18,440
29a	061030	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 and bolts 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.				
29b	061031	For Through Rail Renewal work	TRM	41.95	2000	83,900
30		Miscellaneous items under USSOR 2022 / any other SOR's not covered under original scope of work.	LS		1	20,00,000
Total of Schedule "L1"						**72,43,182**

Schedule "L2":Linking of Track under Non-Traffic Block Conditions (Items Covered Under USSOR-2022)

Sl No	USSOR No.	Description of Items	Unit	Rate	Qty	Amount
1	171070	Unloading of all type of rails of length 130 metre and beyond from end unloading rake and keep the panels in head-up position at specified distance from centre of track clear from any infringement. Note: Contractor has to keep Oxygen and Acetylene gas with cutter as standby during the period of work.				

1a	171072	Not involving traffic block	MT	23.00	1500	34,500
2	171060	Unloading of rails of any section and length from 13 metre to 39 metre, in neat manner for Railway usage from departmental material train (DMT) including lead up to 50 metre and lift up to 5 metre.				
2a	171062	Not involving traffic block or in lines not opened to traffic	MT	114.00	50	5,700
3	122010	Shifting & pairing of rails / panels unloaded alongside existing running track to adjoining formation of a new line including crossing of one track, duly lifting & pushing rail / panel without damaging it and taking all necessary precautions, so as not to infringe the running track, as directed by Engineer in-charge. Note: The rail barricading, if disturbed during working, should be restored to its original condition by the agency including re-fixing & concreting as required.				
3a	122014	For rails/panels of more than 13m and up to 40m length - Under Conditions not requiring Traffic Block	RM	20.00	520	10,400
3b	122016	For rails/panels of more than 40m length - Under conditions not requiring Traffic Block	RM	29.00	15000	4,35,000
4	123010	Providing Centre Line / Rail Level, reference Pegs on formation at an interval of 30 metres on one side or at centre of proposed / existing track, as directed by engineer in-charge for linking of new track / CTR / Deep Screening / Lifting / Lowering works, duly embedding in formation including marking with contractor's paint. Note: (1) Rails/tie bar of suitable size bar shall be supplied by the Railways from nearest Stores Depot. In case of hard wood peg, the hard wood will be supplied by the contractor. (2) Excavation and concrete work, if required, will be paid separately.				
4a	123013	With contractor's hard wood pegs of 50 mm dia and 60 cm long	Each	117.00	450	52,650
5	123040	Linking of BG track (except at LC, Bridges and SEJs) with any type of rail section and sleeper of specified density, on ballast bed spread and compacted with suitable roller, over				

		prepared formation including leading free rails/welded panels available along the alignment on to formation, leading and spreading all fittings and fastenings, spreading of sleepers at specified spacing, squaring, placing of rails over sleepers and fixing rails to sleepers with all types of fittings and fastenings to correct gauge & alignment, lubrication of fittings and fastenings with contractor's grease as per IRPWM standards with contractors labour, tools, consumables, with all lead, lifts etc. complete and raising, levelling and initial packing of track to make it fit for 30 kmph and meet other prerequisites prescribed in Indian Railway Track Machine Manual for deployment of Tamping Machine. Note: 1. Rail cutting and Hole drilling shall be paid separately. 2. Spreading of ballast and compaction shall be paid separately under relevant item.				
5a	123041	For sleeper density of 1660 sleepers per km	TRM	270.00	12000	32,40,000
5b	123042	For sleeper density of 1540 sleepers per km	TRM	251.00	500	1,25,500
6	123050	Linking of track at level crossing locations as per RDSO drawings with any type of rail section and sleeper on prepared formation including leading free rails/welded panels available along the alignment on to formation, spreading of sleepers at specified spacing, squaring, placing of rails over sleepers and fixing rails to sleepers with all types of fittings and fastenings to correct gauge & alignment, excavating level crossing portion as necessary, fixing check rails to running rails, providing C.C blocks, chairs, anti-corrosive painting to running rails and check rails, lubrication of fittings and fastenings with contractor's grease as per IRPWM standards with contractors labour, tools, consumables, with all lead, lifts etc. complete and raising, levelling and initial packing of track to make it fit for 30 kmph and meet other prerequisites prescribed in Indian Railway Track Machine Manual for deployment of Tamping	TRM	412.00	50	20,600

		Machine.Note: Rail cutting and hole drilling, if required, shall be paidseparately under relevant item.				
7	123060	Linking of BG track (with guard rail) over ballasted deck bridges with any type of rail section and PSC sleeper including leading free rails/welded panels available along the alignment on to bridge, leading and spreading all fittings and fastenings, leading & spreading of sleepers at specified spacing, squaring, placing of rails over sleepers and fixing rails & guard rails to sleepers with all types of fittings and fastenings to correct gauge & alignment, lubrication of fittings and fastenings with contractor's grease as per IRPWM standards with contractors labour, tools, consumables, with all lead, lifts etc. complete and raising, levelling and initial packing of track to make it fit for 30 kmph and meet other prerequisites prescribed in Indian Railway Track Machine Manual for deployment of Tamping Machine. Note: 1.Rail cutting and Hole drilling shall be paid separately. 2.Spreading of ballast and compaction shall be paid separately under relevant item. 3. This item shall be applicable only when track is with Guard Rail. Linking without guard rail be paid under relevant item for plain track	TRM	399.00	300	1,19,700
8	062010	Through Sleeper Renewal (TSR) with PSC sleepers involving removal existing sleepers of any type along with fittings from track, insertion of PSC sleepers lying along the cess / formation / slope / toe within 5 metres height with all fittings to specified spacing, gauge and squareness, one round of through packing to make track fit for 20 kmph speed, dressing of ballast to standard profile, all in accordance with the latest provisions of IRPWM and stacking of all released material neatly at specified places within an average lead of 100 m as directed by Engineer in-charge.				
8a	062013	For PSC wider base sleepers - For location of work not involving deep screening	Each	333.00	250	83,250

8b	062015	Extra to item no. 062011, 062012, 062013 and 062014 for sleepers lying on slope / toe of bank beyond initial height of 5 metres.	Each	38.00	250	9,500
9	072040	Laying and linking of turnouts of all types including diamond crossings & Derailing switches with 52Kg / 60Kg rail section on PSC sleepers on prepared ballast bed for New lines or during total closure of section at indicated location as per standard drawing, duly leading sleepers, rails, switches, crossings, fastenings including rail cutting, drilling, fixing of all components, fittings with housing of tongue rails as per requirement of signaling, preparing ballast bed, filling and spreading of ballast as required, linking of turnout with track, attending track parameters including lifting, providing one round of packing to make track fit for 20 kmph speed including lubrication of fittings/fastenings, complete as directed by Engineer in-charge.				
9a	072042	1 in 12 Turnouts	Set	47641.00	12	5,71,692
9b	072043	1 in 16 Turnouts	Set	52492.00	4	2,09,968
10	065030	Assembling and Laying of Improved Switch Expansion Joint (SEJ) on PSC sleepers of any rail section as per RDSO drawing including leading of SEJ rails, sleepers, fittings for a free lead of 250 metres, cutting of rails, drilling of holes as required and lubrication of SEJ, gauging, aligning rails, providing temporary connection with adequate welding gap with adjoining rails, providing reference posts at SEJ, first through packing of SEJ potion to make track geometry fit for 30 kmph speed and making ballast profile as perIRPWM.Note: (1) Rail cutting and hole drilling shall be paid separately. (2) One set comprise complete SEJ on both rails at SEJ.				
10a	065031	Under Conditions not requiring Traffic Block	Set	6422.00	8	51,376

11	161010	Quick cutting with abrasive rail cutter of all types of rail sections including wear resistant, head hardened rails up to 110 UTS, with contractors' tools & plants, equipment, consumable with all lead & lift etc. complete as directed by Engineer in-charge. Abrasive Rail Cutter will be as per RDSO Specification No. TM/SM/1 (Rev. 01 of 2012) with latest status of RDSO; Rail Cutting Wheel Abrasive Disc will be as per RDSO Specification No.TM/SM/2 (Rev. 01 of 2020)				
11a	161011	60 Kg - 110/90 UTS - Outside Track	Each	238.00	400	95,200
11b	161012	52 Kg - 90 UTS - Outside Track	Each	216.00	1500	3,24,000
12	064050	Gas cutting of rail of various sections with contractor's tools & plants, as directed by engineer in-charge :				
12a	064052	Rail section of 52Kg and above	Each	118.00	50	5,900
13	161040	Drilling holes of 16 mm to 32 mm dia. with Rail Drilling machine including chamfering with appropriate chamfering tools in all types of rail section with contractor's tools & plants, equipment, consumable with all lead & lift etc. complete, as directed by Engineer in-charge. Rail Drilling Machine will be as per RDSO Specification No. TM/SM/3, dated 24.04.1991.				
13a	161041	Outside Track	Each	53.00	2000	1,06,000
14	183020	Fabrication including cutting, bending/machining and fixing of check rails of all rail sections over PSC Sleepers as per Railway"s approved drawings & specifications for level crossings / trolley paths/inspection lines in yards duly cutting rail flanges, wherever required to correct alignment and level, drilling of holes with machine in check rails and fixing to Running rail and sleepers with all Railway's fittings, e.g. rail screws / grip expansion bolts, brackets, packing pieces, bolts, washers etc including grinding of brackets if required, fixing of Railway's wooden blocks at flare ends duly cutting and plaining, crossing of tracks and as directed by the engineer in-charge Note: 1. Drilling of holes in PSC Sleeper and fixing of dowels shall be paid under relevant	TRM	994.00	80	79,520

		item. 2. Required P.Way materials will be supplied at SSE/P.Way stores				
15	211030	Fabricating of check rails of 52Kg and 90R sections for providing to curves by cutting web of rail horizontally by gas, grinding for smoothening the cut edge and drilling of parabolic shaped holes to the web of check rails as per drawing and specification and as per directions of engineer in-charge with all contractor's labour, tools and materials complete. Note: 1. Rails shall be supplied by Railways. 2.The both ends of head of check rails are to bent/cut as per drawing. 3. The released rail scrap shall be stacked neatly with in a lead of 500m. 4. Drilling of holes shall be paid under relevant item.	RM	176.00	800	1,40,800
16	211050	Fixing of check rails on curves on track of all rail sections as per drawing and to correct alignment and level with Railways fastenings including leading of rails and fittings, crossing of tracks, greasing of plate screws with approved grease etc., as per drawing and directions of Engineer in charge with all contractors labour, tools, plants, machinery, consumables etc., complete. Note: Required P.Way fittings will be supplied at SSE/P.Way stores.	RM	69.00	1500	1,03,500
17	194010	Manufacture of flared portion of Guard Rail by cutting and bending to required shape & RDSO"s approved drawings. Note: (1) Rails shall be supplied by Railways. (2) One set consists of two rails i.e. both left and right.	Set	3740.00	16	59,840
18	194020	Providing and fixing of flared portion of guard rails of any rail section over PSC sleepers including fixing of with all fittings, including leading of rails and fittings, squaring and adjusting spacing of sleepers as required, providing nose blocks duly cutting wooden blocks supplied by railways and fixing it with bolts of 16mm dia as directed complete and finished as per RDSO"s approved drawing. Note: 1.One set consists of LH &	Set	3440.00	16	55,040

		RH side rails of one end. 2.Required P.Way fittings will be supplied at SSE stores depot.				
19	186180	Fixing of grip expansion bolts of 18mm / 22mm dia. with nuts and MS clips / washers on PSC sleepers as per specifications for fixing guard rails / check rails / trolley path including drilling of required holes in sleepers with all fittings with contractor's tools & plants, equipment, consumables with all lead, lifts etc. complete, as directed by Engineer in-charge, excluding cost of bolts, nuts, washers, clips etc.	Each	131.00	500	65,500
20	083010	Lifting and packing for regrading the existing PSC sleeper track to required height / level in stages not exceeding 75mm or part thereof at a time, providing permissible ramp for the track, insertion of moorum / sand / stone ballast uniformly under the existing track and placing the same to safe approved gradient, gauge, cushion including levelling and one round of through packing to allow train movement at restricted speed of 30 kmph for a specified length with all leads & lifts and fixing, marking, painting rail level pegs at every 30m interval. Note: Lifting of track shall be done in stages as per procedure prescribed in latest edition of IRPWM to get the proposed final level as per approved working profile, as directed by Engineer incharge.	TRM	166.00	2000	3,32,000
21	083011	Extra for additional lift over 75mm for every 50mm lift or part thereof up to 275mm for item nos. 083010 for each TRM.	TRM	26.00	2000	52,000
22	073020	Lifting the newly inserted BG 60 Kg. / 52 Kg. turnouts/ trap switches to required level to provide full ballast cushion as per approved drawings after initial laying with Railway's stone ballast in convenient stages including one round of through packing after completion of final stage of lift, levelling, aligning, gauging and boxing to standard profile to make it fit for 20 kmph with all lead and lifts, complete in all respect and as directed by the Engineer in-charge. Note: 1. The item shall be used only when UNIMAT is not available for the work before the turnout is opened for operation. 2.				

		Leading and dumping of ballast will be paid separately under relevant item.				
22a	073022	For 1 in 12 Points & Crossing	Set	9258.00	12	1,11,096
22b	073023	For 1 in 16 Points & Crossing	Set	11819.00	4	47,276
23	155010	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, screening and replenishment of ballast at mud pumping / 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 ballast Note:1. Tamping blocks are not identical & it may be given at any timeeither 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 andrestoration of complete ballast profile				

23a	155013	New Line Section, not opened for traffic.	TRM	10.00	32000	3,20,000
24	156030	Carrying out pre-tamping, during tamping and post-tamping works prescribed in current version IRTMM/IRPWM for tamping of Turnouts of all types Under Conditions not requiring Traffic Block.				
24a	156032	1 in 12 Turnouts	Set	6073.00	24	1,45,752
24b	156033	1 in 16 Turnouts	Set	7894.00	8	63,152
25	137010	Anti-corrosive painting of rail outside track on rail bottom, web, foot and fishing plane with two coats of thickness of 100 microns each by bituminous black paint confirms to IS-9862 of reputed make including surface preparation, as a complete job as per procedure prescribed in latest edition of IRPWM.				
25a	137011	For 60 Kg Rails	RM	50.00	22000	11,00,000
25b	084010	Loading Railway's ballast, collected at yard / depot into Railway's BOB / BKH / any other type of open wagon, using Mechanical Loader or any other method with all lead and lifts, as directed by Engineer in-charge.	cum	40.00	5000	2,00,000
26	084040	Unloading of ballast from Railway's Hopper Wagons, quantity distribution as per pre-defined site requirement, clearing infringements/jammed ballast, distributing the unloaded ballast uniformly over the track, profiling and boxing following all prescribed safety norms.				
26a	084042	Under Conditions not requiring Traffic Block	Cum	37.00	5000	1,85,000
27	083040	Removing, screening and salvaging ballast from track, duly digging / scarifying ballast by beaters / wire brushes or any mechanical means, leveling and dressing formation with specified cross slope after salvaging ballast, separating muck by screening the salvaged ballast with contractor's 20mm size sieve, stacking of screened ballast for measurement, disposing off muck at specified locations with all lead & lifts as directed by Engineer in-charge. Note: Payment shall be made for quantity of ballast stacked after screening of retrieved ballast from track.	Cum	288.00	1000	2,88,000

28	063110	Lubrication of gauge face of rail on curves, cross overs, points & crossings, turn-in curves and at locations as required with contractor's grease graphite grade "O" IS 408 and as directed.	RM	5.00	10000	50,000
29	211250	Manufacturing and fixing buffer stop with Railway supplied rails, cutting, including bending of rails as per plan ,with all contractor‟s labour, materials, tools, plants etc. and all lead and lift including crossing of track where necessary and as directed by Engineer in charge at site. Note: Excavation, fixing rails in cement concrete, drilling of holes will be paid separately.	Each	15160.00	8	1,21,280
30	186170	Fixing of wooden blocks of approximate size of 150mm x 300mm x 1200mm on end of check rails including sizing at level crossings with contractor's labour, tools & plants and as directed.				
30a	186172	With Contractor‟s hard wood block	Each	3162.00	6	18,972
31	211260	Manufacture and supply of Precast Kilometer Posts of size 1.15 x 0.50 x 0.075 m in RCC 1:2:4 mix, engraving letters and leading to work spot, fixing in position with CC 1:3:6 concrete duly making pits of size as required, painting the post, writing the letters on both sides of the post with 2 coats of enamel paint of approved quality to the Railways drawings/IRPWM with contractor's materials, cement, steel, labour, tools, plant, with all lead and lifts etc., complete as per specifications and as directed by the Engineer-in-charge. Note: Excavation, Concrete and steel work will be paid under relevant items.	Each	381.00	20	7,620
32	211280	Manufacture and supply of Precast Hectometer/TP Repeater posts of size 0.90Mx0.30 mx0.30Mx0.30M Triangular size in RCC 1:2:4 mix, engraving letters, leading to work spot, and fixing in position with CC 1:3:6 concrete, duly making pits of size as required, painting the post with two coats, letters on the both sides of posts with enamel paint of approved quality as per IRPWM/Railways drawings complete with contractor's materials, cement, steel, labour, tools, plant, with all lead	Each	177.00	120	21,240

		and lifts etc., complete as per specifications and as directed by the Engineer-in-charge. Note: Excavation, Concrete and steel work will be paid under relevant items.				
33	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 450mm x 300mm duly fixed with MS frame of 25mm x 25mm x 3mm angle welded to 50mm x 50mm x 3mm MS angle, 1000mm long post split and bent 100mm 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	1102.00	60	66,120
34	211060	Supply and fixing in position pre-cast cement concrete Fouling Mark as per approved drawing at station yard, duly painting the top surface and slopes with white enamel paint in two coats and inscribed letters with black of Fouling Mark, complete in all respects with all labour, materials including cement, tools and plants etc.	Each	443.00	20	8,860
35	202020	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 approved by Engineer In-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 @ 20 cm c/c to back-support frame of M.S. angle iron of size 25mm x25mm x 3mmprovided all along the edges of board with theft resistant measures back side of board shall be with				

		non-peelable weatherproof 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.				
35a	202021	Caution Indicator Board of size 1400mmx400mm with back support frame fixed to vertical post of MS angle of size 50mmx50mmx6mm of 3650 mm long	Each	6100.00	6	36,600
35b	202022	Speed Indicator Board of equilateral triangular shape having each side of 1000mm with back support frame fixed to vertical post of MS angle of size 50mmx50mmx6mm of 3650 mm long	Each	5225.00	12	62,700
35c	202024	Termination Indicator Board of Circular shape having diameter of 1000mm with back support frame welded to vertical post of MS angle of size 50mmx50mmx6mm of 3950 mm long	Each	7537.00	6	45,222
36	202011	Bilingual Whistle Boards for level crossing of size 600mm x 600mm of each board with back support frame welded to vertical post of MS T section of size 75mm x 75mm x 6mm x 3950mm	Each	7338.00	6	44,028
37	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 MS T section of size 80mmx80mmx8mmx3650mm	Each	6704.00	6	40,224
38	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	6164.00	12	73,968
39	211020	Erection or removal of temporary Engineering Indicator Board or any other board at specified locations without causing infringement to track etc., complete and as directed.				
39a	211021	For erection	Set	238.00	42	9,996
39b	211022	For removal	Set	193.00	42	8,106
40	137070	Marking, inscribing, painting, writing, bordering etc. on new / old iron surface at various locations of Points & Crossings				

		with details of turn-in / turn-out reference station mark on rail web for one set, duly preparing surface with contractor's wire brush and applying two coats of yellow synthetic enamel paint of approved quality as background and stencilling the details to suitable size, as described for every curve reference station mark / switch / crossing details with black enamel paint of approved quality complete, as directed : Note: Stencilling of letters is only permitted. No hand written letters are accepted.				
40a	137071	1 in 16 Turnout	Set	1791.00	4	7,164
40b	137072	1 in 12 Turnout	Set	1191.00	12	14,292
41	137080	Painting 2 coats to various P. Way Reference Post, Structures etc. with enamel paint of approved make with 2 coats of different colours & letters, as directed by Engineer in-charge.				
41a	137090	Curve details, SE, Versine, Station Nos. etc. per station.	Each	52.00	500	26,000
42	163030	Extraction of jammed ERC by Heavy Duty Hydraulic Extractor with contractor's tools & plants, equipment, consumable with all lead & lift etc. complete, as directed by Engineer in-charge. Heavy Duty Hydraulic Extractor for jammed ERCs (10 Ton capacity) shall be used as per RDSO's Specification No. TM/SM/6, dated 8.05.1991.	Each	33.00	100	3,300
43	063130	Scattered renewal or replacement of missing / worn-out fittings with Railway's fittings for track/Points & Crossings sleepers including leading to required location for the work and the released fittings shall be collected and neatly stacked, as directed by the Engineer In charge. Note: New fittings shall be supplied from and released material shall be deposited at, nearest P.Way Stores.				
43a	063131	GRSP	Each	19.00	100	1,900
43b	063132	ERCs	Each	6.00	1600	9,600
43c	063133	Metal/GFN Liners	Each	4.00	1600	6,400
44	186190	Erecting detonator rail posts at required locations as required including cutting the rail to required length varying from 1.00M to 1.50M , leading the rail pieces from nominated	Each	387.00	12	4,644

		station / mid section from nearest depot to site of work, erecting the rail post by making the pit size as required and filling with CC 1:3:6 mix with 40mm aggregates and painting the rail post with two coats of synthetic enamel paint of approved colour and make, marking of detonator symbol as per site requirement, with contractor's materials, labour, paint, all lead and lifts, etc., complete as per specifications and as directed by the Engineer-in-charge. Note: Excavation and concrete work for foundation will be paid under relevant item.				
45	186200	Erecting Emergency Chain Posts for level crossings , including cutting rail to required length varying from 1.00M to 1.50M , drilling holes, providing hooks & links / rings with necessary locking arrangements to fix emergency chain, leading the rail pieces from nominated station / mid-section from nearest depot to site of work, erecting the rail post by making the pit of size as required and filling with CC 1:3:6 mix with 40mm aggregates and painting the rail post with two coats of synthetic enamel paint of approved colour and make, with contractor's materials, labour, paint, all lead and lifts, etc., complete as per specifications and as directed by the Engineer-in-charge. Note: (1) Rails & chain will be supplied by Railways. (2) Excavation and concrete work for foundation will be paid under relevant item.	Each	462.00	12	5,544
46	186160	Manufacturing, supplying and fixing Wicked Gate of size 1025mm x 1025mm x 1000mm at manned level crossings, as per approved drawing including painting with 2 coats of specified enamel colour paint over 1 coat of primer including earthwork in excavation etc. complete, as per specifications and as directed	MT	111947.00	4	4,47,788
47	181050	Dismantling existing lifting barrier and other components except winch assembly, like boom, fringes, locking arrangements, pedestal, boom rest, locking rods/wires,	set	16072.00	2	32,144

		pulley stakes, turn out wheels, 'A' base and other materials connected with functioning of lifting barrier without any damage including demolishing concrete base of existing structures and clearing debris in a neat and stacking in a countable manner and clear of infringements, as directed. Note: Barriers on both sides of level crossing constitute one set				
48	186210	Providing Rail Barricading with rails supplied by Railways with verticals provided at every 1.5m interval, height of barricade being up to 1.5m above ground / termination level and one or more row of horizontal rail, duly cutting rails and drilling holes as required, assembling necessary accessories to required length, including earthwork excavation for foundation, fixing posts in cement concrete 1:3:6 base of size 0.45m x 0.45m x 0.60m and one coat of red oxide painting of steel work. Note: 1. Excavation and concrete work will be paid separately. 2. Rail shall be made available within 250 metres	MT	1482.00	100	1,48,200
49	136010	Fixing Joggled Fish Plates with bolt / clamp (supplied by Railway 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).				
49a	136011	With 2 bolts	Set	103.00	100	10,300
49b	136012	With 4 bolts	Set	114.00	10	1,140
49c	136013	With Clamps	Set	147.00	160	23,520
50	022010	Earthwork in excavation by mechanical means (Hydraulic Excavator)/Manual Means for foundations and floors of the bridges, retaining walls etc. including setting out, dressing of sides, ramming of bottom, getting out the excavated material, back filling in layers with approved material and consolidation of the layers by ramming and watering etc. including all lift, disposal of surplus soil up to 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. Note: This item will be used for excavation work in connection with other miscellaneous works also like side drains, foundation for OHE masts and other miscellaneous structures in connection with Gauge Conversion, Doubling, New lines.				
50a	022011	All kinds of soils	Cum	194.00	100	19,400
51	025070	Supply and using Cement at Worksite				
51a	025072	Ordinary Portland Cement 53 grade of approved brands/makes	MT	7556.00	6	45,336
52	022030	Providing and laying in position Plain cement concrete of specified Nominal Mix for miscellaneous works like side drains, foundation for OHE masts and other miscellaneous structures excluding the cost of Cement, centring and shuttering - All work up to plinth level:				
52a	022032	1:2:4 (1 cement: 2 coarse sand (zone-III): 4 graded stone aggregate 20 mm nominal size)	Cum	2825.00	20	56,500
52b	022034	1:3:6 (1 Cement: 3 coarse sand (zone-III): 6 graded stone aggregate 20 mm nominal size)	Cum	2906.00	20	58,120
53	123030	Spreading of ballast, from existing stacks available along formation on top or at cess, in required uniform thickness, compaction of ballast layer laid on new formation at all the locations with smooth wheeled power roller of 8-10 tonne capacity to sufficient number of passes to form consolidated ballast bed of approximately 250mm thickness to a width of 4m symmetrical to centre line of proposed track in correct line & level with all ascents & descents, as directed by Engineer in-charge.Note: Item is inclusive of (a) providing ramp for taking roller to formation and removing the same & making good formation after completion of work; (b) redistribution & levelling of excess ballast while rolling to obtain uniform plane cambered surface.	Cum	43.00	29000	12,47,000
54	136040	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.				
54a	136042	One mobile Gang comprising of 20 physically fit labours plus 1 Mate. Note: (1) In case, contractor provides less no. of Labour/Mate payment will be deducted for each such labour @ 10% of the accepted rate.	Gang Day	14345	270	38,73,150
55	211210	Arranging labour as and when required by the Engineer in charge, for various works under SSE/P.Way, with contractor's T&P, equipment, 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 in charge. Note: Item shall be operated with prior approval of concerned Sr. DEN / DEN in charge	Day	654.00	1000	6,54,000
56	124020	Working of the Railway Push Trolley by arranging one Head trolly man along with 3 trolly men as per Railway's rules and stipulations for conducting inspections by Railway officials and as directed by Engineer in-charge.Note: 1) Labourers supplied should be of skilled in case of head trolly man and semiskilled in case of trollymen and capable of pushing trolley in all gradients, and levels duly observing all safety precautions as per the manual.2) The labour engaged should be physically fit for strenuous work, literate and meeting prescribed medical category.				
56a	124021	For Full day (8 hrs)	Each	3205.00	25	80,125
56b	124022	For Half day (4 hrs)	Each	2063.00	25	51,575
57	124030	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 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.				
57a	124031	For one shift (12 Hrs)	Each	1148.00	60	68,880
58	144030	Providing an assisting gang comprising of 6 men per day with SSE/P.Way/ USFD for carrying out ancillary works viz., lookout, watering, paint marking and handling machine for USFD test with Double Rail Tester (DRT) machine and as directed by Engineer in charge. Note: 1. This item shall be operated only when there is no departmental staff available and only with the prior approval of concerned Sr. DEN/Co-ordination. 2. In case, contractor provides less no. of Labour, payment will be deducted for each such person @ 1/3 rd of the accepted item rate.	Gang Day	3855.00	10	38,550
59	151100	Guarding and watching the Track machine / group of machines, spare parts, oils, grease etc. of PQRS cranes (one set of 2 portals) during day and night time in a shift of 12 hours each, at all locations wherever necessary, as instructed by the machine in-charge. Note: One shift comprises of 12 hours.	shift	754.00	50	37,700
60	157030	Providing lighting arrangements with halogen lamps on and around machine during machine working in night time blocks, with contractor's generator, consumables, all necessary electrical fittings, operators etc. Note: 1. Lighting arrangement is to be provided as per advance planning of Night Blocks and written communication. 2. In case lighting arrangement is made available but not used due to non-availability of block, payment @ 60% of the item rate shall be made. 3. In place of Halogen, LED lamps of equal lumen capacity may be used				

		with the approval of Engineer -in-Charge. 4. If lighting arrangement fails during block, recovery shall be made twice the rate per day.				
60a	157031	BCM/FRM/UNIMAT (7.5 KVA generator and 12x500 W)	Each Night	4503.00	15	67,545
60b	157032	CSM / DUO / 3X with or without DGS (7.5 KVA generator and 8x500W)	Each Night	4014.00	15	60,210
60c	211070	Providing and erecting water proof Gypsy Tent of size 3m x 3m for a specific period of time and removal of the same after completion of work or as directed by Engineer in-charge.	Day	471.00	30	14,130
61	211080	Providing furniture temporarily at site work in good condition at different locations as per direction of Engineer In-charge and removing the same after completion of work.				
61a	211081	Office Table of size 1.2m x 0.9m per day	each	44.00	20	880
61b	211082	Office Chairs with cushioned seat, back and arms per day	each	21.00	50	1,050
62	171010	Loading of rails of any section and length up to 13 metres in Wagons/ Truck / trailer including lead up to 50 metres and lift up to 5 metres.				
62a	171014	In Wagon where mechanical handling is possible and traffic block is not required or in Truck/trailer.	MT	120.00	1160	1,39,200
63	171050	Unloading of rails of any section and length up to 13 metre, in neat manner for Railway usage from departmental material train (DMT) or contractor's / Railway's Truck/trailer including lead up to 50 metre, lift up to 5 metre and stacking in prescribed manner.				
63a	171053	From Wagon where mechanical handling is possible and traffic blocks not required or in Truck / trailer.	MT	88.00	1160	1,02,080
64	172010	Loading of 52kg / 60kg PSC normal line and special sleepers up to 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 up to 250 metre and lift up to 5 metre, 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.				
64a	172014	In Wagon where mechanical handling is possible and traffic block is not required or in Truck / trailer	MT	93.00	6500	6,04,500
65	172060	Unloading of 52kg / 60kg PSC line and special sleepers up to 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 up to 250 metre & lift up to 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.				
65a	172063	From Truck / Trailer	MT	86.00	6500	5,59,000
66	172020	Loading of 52kg / 60kg PSC line and special sleepers beyond 2.75 metre length including existing fittings and fastenings 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 up to 250 metre and lift up to 5 metre, 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.				
66a	172024	In Wagon/Truck / trailer where mechanical handling is possible and traffic block is not required.	MT	117.00	900	1,05,300
67	172070	Unloading of 52kg / 60kg 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 up to 50 metre & lift up to 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.				
67a	172073	From Truck / Trailer	MT	90.00	900	81,000
68	172050	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.				
68a	172051	Lead up to 5 Km	MT	51.00	200	10,200
68b	172052	Lead beyond 5 Km and up to 10 km	MT	91.00	200	18,200
68c	172053	Lead beyond 10 Km and up to 20 km	MT	147.00	500	73,500
68d	172054	Lead beyond 20 Km and up to 30 km	MT	214.00	500	1,07,000
68e	172055	Lead beyond 30 Km and up to 50 km	MT	308.00	650	2,00,200
68f	172056	Lead beyond 50 Km and up to 100 Km	MT	513.00	1300	6,66,900
68g	172057	Lead beyond 100 Km and up to 150 Km	MT	820.00	7750	63,55,000
68h	172058	Extra for every Km per MT beyond 150 Km over item no. 172057	MT Km	3.00	3126500	93,79,500
69	172040	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.				
69a	172043	Lead beyond 10 Km and up to 20 km	MT	253.00	50	12,650
69b	172044	Lead beyond 20 Km and up to 30 km	MT	321.00	50	16,050
69c	172045	Lead beyond 30 Km and up to 50 km	MT	415.00	500	2,07,500
69d	172046	Lead beyond 50 Km and up to 100 Km	MT	620.00	800	4,96,000
70	211200	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.				

70a	211201	JCB Backhoe Loaders 3DX Plus or similar with minimum 1.10 cum bucket capacity	Hour	774.00	300	2,32,200
70b	211202	Hydra or similar tyre mounted Pick-n-Carry crane of 12T capacity for misc. works of handling of material	Hour	978.00	200	1,95,600
70c	211203	Tractor with Trolley for local transportation or other misc. works.	Hour	150.00	200	30,000
71	173010	Unloading of Switches / Crossings / SEJ Rails / Glued Joints of any rail section and length with or without P.Way fittings & fastenings in neat manner for Railway usage from departmental material train (DMT) or contractor's / Railway's Truck/Trailer with lead up to 250 metre & lift up to 5 metres.				
71a	173012	From DMT - Not involving traffic block or on lines, not opened to traffic	MT	156.00	500	78,000
72	171020	Loading of tongue rail, stock rail, switch assembly and crossings of any section and length, SEJ, Glued joint etc. with / without P.Way fittings and fastenings, in Wagon / Truck / trailer including lead up to 250 metre and lift up to 5 metre.				
72a	171024	In Wagon where mechanical handling is possible and traffic block is not required or in Truck/trailer.	MT	118.00	500	59,000
73	142010	Carrying out USFD testing of Alumino Thermic (AT) welds on all types of rails, using 0° (2 MHz) double crystal; 70° (2 MHz) 20mm x 20mm single crystal probe for head & flange testing; 2 nos. 45° (2 MHz) single crystal with tandom rig for testing from rail top to bottom & for half moon testing and 70° (2 MHz) 20mm x 20mm side looking probe by NBC (Need Based Concept) 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.				

73a	142011	Track having up to 3 rail panels - With Contractor's USFD machine	Each	175.00	100	17,500
73b	142012	Track having more than 3 Rail panels - With Contractor's USFD machine.	Each	161.00	150	24,150
74		Miscellaneous items under USSOR 2022 / any other SOR's not covered under original scope of work.	LS	2000000.00	1	20,00,000
Total of Schedule "L2"						**3,83,50,665**

Schedule "M" : Linking of Track (Non USSOR Items)

Sl no.	Item Code	Description of Items	Unit	Rate	Qty.	Amount
1		(i) Leading and dumping of Railway's stone ballast without rail traffic block from stacks collected on either side of formation in mid-section / at yards at top of steep cuttings / side or bottom of high banks: for a lead up to 150 m	cum	92	5000	4,60,000
2		For boxing to sectional profile for a lead up to 150 m	cum	46	5000	2,30,000
3		For fully salvaging all the ballast at stack locations / that fallen in drains / side slopes of formation etc. and dumping the same uniformly in track up to a lead of150 m	cum	16	5000	80,000
4		For dumping of ballast on track for lead more than 150 m and up to 750 m	cum	160	8000	12,80,000
5		For boxing to sectional profile for a lead more than 150 m and up to 750 m	cum	46	8000	3,68,000
6		For fully salvaging all the ballast at stack locations / that fallen in drains / side slopes of formation etc. and dumping the same uniformly in track up to a lead more than 150 m and up to 750 m	cum	16	8000	1,28,000
7		For dumping of ballast on track for lead more than 750 m and up to 5000 m	cum	171	17000	29,07,000
8		For boxing to sectional profile for a lead more than 750 m and up to 5000 m	cum	46	17000	7,82,000
9		For fully salvaging all the ballast at stack locations / that fallen in drains / side slopes of formation etc. and dumping the same uniformly in track up to a lead more than 750 m and up to 5000 m	cum	16	17000	2,72,000
10		Setting out centre line for alignment of track in straight without rail traffic block using contractor's total station equipment and;	track km	7448	8	59,584
11		Setting out centre line for alignment of track in curve without rail traffic block using contractor's total station equipment and;	track km	8125	3	24,375
12		(i) Rail reneawl for non running line/without rail traffic block during day/Nignt of the existing single rail track on main				

		line/loop line with 60kg/52kg-single rails,3 rail panels/10rail panels/20 rail panels duly leading rails from stacks availabe on foramtion/top of cutting/bottom of bank-near level crossings/in mid section/in the yard-on either side of the alignmnet upto a lead of 1 (one) Km duly removing the fishplates, bolts, and nuts, ER clips etc, of the existing track, removing te existing track, pairing abd butting th joibts of new rails (or the rails with which renewal is being done), fixing corresponding matching fittings and fastening like GFN liners/ metal liners, ER sole plates, fishplats, bolts andnuts etc, duly greasing the fish lates and bolts with vontracor's grease no. 0 graphted (conforming to IS : 408-1981 and procured from RDSO approved firms)				
		(ii) stacking the relesed rail(s) at the specified locations upto a lead of 1 (one) Km all of the above shall be executed with contractor's skilled personal,tools and plant, vehicles, machinery, fuel, consumables loading, unloading with all incidental charges and in all kinds of weather and site conditions including crossing oftracks whereever requires duly observing all saftey precautions and including all ascent, descent, taxes,duties,cess,surcharges,fees etc completely as per te special conditions/ specifications/ regulations as directed by tge Engineer-in-Charge and per the note below : Notes:1. The rate includes transporting, leading and stacking of the releaed rails properly in a countable manner.2. Greasing of ERCs and inner surface of MCI inserts, if done, will be paid separately under relevant item.3. The limit of 1)one) km for lead does not apply to yards. The rate includes any lead with in yard limit.4. Track fittings like ERCs, liners, fish plates, rubber pads etc may have to be brought from the nearby yards/mid-section/pway depo. No additional payments shall be made for the same.5.The rate includes transporting the released fittings and fastenings to the specified p-way depo and stacking.6. Lead of rails9new or	Track metre	108	11000	11,88,000

		released)beyond 1(one) km shall be paid separately.7.The rate includes engaging lookout men and banner flag men with hand flags and banner flags respectively.				
13		Supply and providing safety chains of 8mm thick MS links for manned level crossing	M	554	60	33,240
14		Manufacturing supplying & fixing Trolley Refuge Indicator Boards / Level Crossing No. Boards, made of MS sheet of 2mm thick of size 300mmx400mm. and 40mm x 40mm x 5mm angle, welded to MS sheet, duly painting with 2 coats of ready mixed yellow enamel paint over one coat of red oxide with all lead & lift as per specification and as directed by Engineer in-charge	Nos	1598	60	95,880
15		Supply of Motor Bike 150CC or more as per relevant Special Condition.	Per Month	7589	12	91,068
16		Providing road vehicle(s) with skilled and professional Driver(s) cum Attendant(s) in Bengaluru, its suburban areas and nearby cities and towns as per the criteria/ stipulations/specifications/conditions and with the penalties mentioned underneath, in the notes.1) Very well-maintained and in excellent running condition with a total run of less than 50,000 (fifty-thousand) km from the date of registration and registered within 2 (two) years from the date of opening of tender,2) With efficient suspension system of the standard expected for the class of the vehicle specified; with airbags (front airbags for front and rear seats mandatory for the vehicles, side airbags and side curtain airbags desirable)3) With experienced, sensible, literate, smart, smart-phone-literate, decent, polite and well-behaved Driver(s) cum Attendant(s) well versed with Bengaluru and surrounding areas.				
		Notes: 1) The rate quoted shall be inclusive of GST, all other taxes, all permits, all govt. charges (except toll, parking) etc.; salaries, daily allowances, food charges, night halt charges, stay charges for night halt and all other allowances of main driver, fuel, lubricating oils,				

		all consumables, wear and tear, all expenses in maintaining the vehicle, suspension system, accessories etc. in good working condition; all incidental expenses; 2 (two) sets of white (or any other approved colour) uniforms to the drivers; 2 (two) sets of white (or any other approved colour) seat covers properly fastened to the seats; 2 (two) sets of white (or any other approved colour) head-rest-covers; 2) The rate quoted shall be for 3000 km run in a month, 26 days working in a month and 12 hours a day. Extra distance, extra days and extra hours will be paid separately. 3) The approximate number of vehicles to be supplied is 5 (Five). This is only indicative. The actual number may vary every day / every month as per the requirement. Extra vehicles will be paid separately. Very Important Note: It is advised to go through all the ASC (Additional Special Conditions) for a clear understanding of the nature of professionalism expected and the penalties				
16a		Providing Maruti Suzuki Dzire/ETIOS or similar approved road vehicle(s) excluding GST	Vehicle month	41274	6	2,47,644
16b		For extra kilometre after 2500 KM/month for each vehicle	Per KM	15	600	9,000
16c		For extra hour if a vehicle runs more than 300 hrs. per month	Per hour per vehicle	220	400	88,000
16d		If a driver works more than 26 days in a month. Hours worked on these days will be added to total hours worked in a month for the purpose of payment of additional hours as per condition (c) above (beyond 300hrs, per month). Kilometre travelled on this day will be added to total kilometre of that vehicle, for the purpose of payment as per the note (a) & (b) above (beyond 2500 Km).	Per day per Vehicle	1500	25	37,500
17	PWNB - 024	De-stressing of LWR / CWR under non traffic condition / without rail traffic block at the desired rail temperature duly carrying out all the operations contained in LWR manual with contractor’s hydraulic rail tensor, contractor's skilled personnel (sufficient in number so as to easily handle the entire length of track to be de-stressed), tools and plant,				

		vehicles, machinery, fuel, consumables, loading, unloading with all incidental charges and in all kinds of weather conditions and site conditions including crossing of tracks wherever required duly observing all safety precautions and including all lead, ascent, descent, taxes, duties, cess, surcharges, fees etc. completely asper the special conditions / specifications / regulations, as directed by the Engineer-in-Charge and as per the note(s) below.				
		Notes: 1.If the rail temperature at the time of carrying out de-stressing operation is not within the specified limit; the operation may not be carried out at that time / on that day. No compensation shall be paid for postponement for a few hours / total cancellations of the programme for whatsoever reason;				
		2.The decision of Engineer-in-Charge with regard to the number of persons / tools or machinery required to satisfactorily complete the work within a reasonable period of time is final and binding on the contractor. If in the opinion of Engineer-in-Charge the number of persons / tools or machinery available at site is less than that required, the operation as scheduled may not be carried out and no compensation shall be paid towards cancellation of the programme.	TRM	26	11000	2,86,000
Total of Schedule "M"						**86,67,291.00**

SCHEDULE-"H" (Supply of Ballast)

Sl No	Item Code	Description of Items	Unit	Qty.	Rate	Amount
1		Supply of Ballast: Manufacturing, supply and stacking of machine crushed Track Ballast conforming to RDSO Specification (IRS-GE-1) with latest correction slips at Railway depot or nominated location. Note: Distance of nearest quarry mentioned in each sub-item is only for the purpose of selecting the items for	Cum	30000	1325	3,97,50,000.00

		preparation of estimates/tender schedule, based on the minimum distance between nearest quarry and centre of supply points and will not affect the selection of quarry during physical supply in any way till prescribed specification is met fully.				
Total of "H" (Excl. GST)						**3,97,50,000.00**