

E-Tender No.: GSU-06of2026-27

NWR GSU-TENDER DOCUMENT

(open)

(Two Packet System)

**Name of Work: New Block station between Thayat Hamira-Jetha Chandan
& Shri Bhadriya Lathi - Odhaniya Chacha stations in RKB-
JSM Section**

**OFFICE OF THE
DEPUTY CHIEF ENGINEER/GSU
North Western Railway
Jodhpur**


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SPECIAL CONDITIONS / SPECIFICATION FOR NS ITEMS

Name of work: - New Block station between Thayat Hamira-Jetha Chandan & Shri Bhadriya Lathi - Odhaniya Chacha stations in RKB-JSM Section

Schedule – C - All Non-Schedule items: -

1.0 NS-1 - Fabrication "IN SITU" Glued insulated joints of G-3 (L) Type for 52Kg/60Kg rails as per RDSO drawing no. T-5361/5843 and confirming to the specification as per instructions contained in manual for Glued insulated rails joints. This item is inclusive of cost of all fittings and accessories such as (a)- Lon fish plates, (b)- HTS bolts & nuts, (c)- Punch washer, (d) Insulated bushes, (e)- Insulated channels, (f)- 6 mm thick end posts, (g)- Glue, (h)-hardener, (i)- Glass cloth carrier and all the materials and fittings for cleaning and assembling, excluding rail, (j)- any other fittings and accessories required to fabricate, "In Situ glued joint" in all respect as per RDSO drg no. T-5361/5843 and specification contained in manual for in situ glued joint.

Glued insulated joint G-3(L) type for 52 kg and 60 kg rail section as per RDSO drawing no. RDSO/T-671 and RDSO/T-2572 respectively as per Manual for Glued Insulated Rail Joints Rev-1998 along with up to date correction slips. The rate includes all activities complete in all respect required for fabrication of In-Situ Glued Insulated Rail Joint.

1. The work may or may not require traffic blocks. The progress of work may hamper in case sufficient traffic blocks of required block period not granted by the Operating department.
2. The contractor has to make his own arrangement for fabrication, insulation, assembling etc. complete of "IN SITU" glued joints on/near railway track. He shall also take necessary precaution for safety of his staff and tools, equipment's etc. complete. Railway shall not be responsible for them.
3. The contractor shall arrange on his own, the transportation of material required for execution of work as per direction of the Engineer in charge at site.
4. All the material, fittings & accessories brought by the contractor shall be deposited at store of SSE/JE/P.Way (GSU) as decided by Engineer-in-charge or any other depot of NWR. The contractor shall transport the same free of cost to site of work, All the materials at site shall be handed over to site in charge at work site by the contractor.
5. The rate includes all activities such as cutting, drilling, chamfering etc required for execution of these items and nothing extra shall be paid. The rate also includes all material except rail such as fish plates, HTS bolts & nuts, Punch washer, Insulated bushes, Insulated channels, 6mm thick end posts, glue, hardener etc and nothing extra shall be paid. The materials required for fabrication of G-3 (L) type glued joint like


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- long fish plates, HTS bolts, and fiber glass cloth and glue etc. shall be purchased from RDSO approved firms only.
6. All the required tests at site & in laboratories on in-situ glued joints will be arranged by contractor at his own cost.
 7. Railway reserves the right to get the glued joints tested for pullout & other strength. The cost of fabricated In situ glued joint required for these tests will be paid by Railways. However, the scrap generated including long fish plate will be deposited by contractor in the store of site engineer and will be the property of the Railways.
 8. Both ends of the joint should be made by cutting the Rail by approved method.
 9. Grinding of Rail to a length of 50 cm on either end should be done with a suitable grinder and it must be ensured that no rolling mark, rust, dust, dents remains in fishing plane with the fish plate.
 10. Payment for fabrication of In-Situ glued insulated rail joint will be made only after the same is certified fit during the joint inspection by SSE/JE-P.Way (GSU) and SSE/JE-Signal (GSU). A register for this inspection should be made at site and should be signed by contractor representative and inspecting officials jointly.
 11. In case of any dispute regarding interpretation of any of the above clauses, decision of the Engineer In-charge shall be final and binding upon the contractors.
 - i) This tender shall be submitted by tenderer after satisfying himself/herself/themselves about all factors and site conditions pertaining to this work including availability of materials, labour, water etc. required for the completion work in all respect, the design/plan/drawing for this work. Working/traffic block hours available for this work and General Conditions / Specifications applicable to this work.
 - ii) Any welded joints which is found defective or fails, during USFD testing/during currency of contract, shall be re-welded with one/two new welds free of cost by contractor using their labour, consumables and equipment's. Portion shall be supplied by the Railway free of cost. A recovery shall be made from the contractor's bill @ Rs.500.00 per joint towards the cost of supervision and wastage of the rail. If contractor do not remove the defective welds or repair the failed joints, recovery will be made @ twice the accepted rates in this item plus penalty of Rs.500/- per defective/failed joint.

2.0 NS-2 - Supplying and stacking of 65mm gauge hard stone machine crushed ballast on cess to the specification of track ballast confirm to IS/RDSO-GE/0001:2023 issued by RDSO /LKO with up to date amendments and revised CE circular no.129 as directed by site engineer as a complete job.

The ballast supplied by the tenderer shall be confirm to IS/RDSO – GE/0001:2023 issued by the RDSO with incorporating the latest correction slip and confirming to all provision of CE circular no. 129 (amended up-to date).

3.0 NS-3 - Picking up stone ballast from the stacks made along the alignment of the track and spreading thereof uniformly on the prepared BG formation to provide 150mm thick clean ballast bed duly compacted by 8/10 ton self-propelled road roller and subsequently to recoup the ballast including dressing and boxing to make standard


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ballast profile after linking of the track with all lift, ascent, descent, crossing of track/nallah or any other obstruction and up to a lead of 150m measured along the track with contractor's own labour and T & P. The rates are inclusive of screening of ballast, if required, to remove the sand mixed in the ballast stacks due to blowing of sand storms in the area.

NS-3(a) Up to a lead of 150 meter.

NS-3(b) Extra for lead beyond 150m but up to 500 m.

3.1 Generally the required quantity of ballast shall be available within a distance of 150m, measured along the center line of the track on BG Rail Line. The contractor is required to lift the ballast from the ballast 'stacks, lead them to the proposed alignment of the track and spread it uniformly and subsequently to recoup the ballast including Dressing & Boxing to make standard B.G. ballast profile, as laid down in the IRPWM (Corrected up to date) and as directed by the Engineer in charge, after linking of the track with his own labour and T & P. The ballast toe line should be marked with lime on both sides.

3.2 The work includes all lift, ascent / descent, crossing of drains and lead up to 150m, measured along the center line of the track. Putting of ballast shall generally be under no traffic condition but some of the quantity may be required to be put after opening of the traffic, for which no extra payment shall be made under any circumstance, whatsoever the case may be. Excess ballast, if put in the track, has to be removed by the contractor at his own cost.

3.3 At few of the locations, for some unavoidable reasons, if it is not possible to supply the ballast along the track, extra ballast for the same shall be available at some other location, may be in station yards or in mid sections. In such cases, when the lead exceeds 150m, extra payment shall be made under relevant NS item. The lead will be measured along the track. No lead will be payable for leading ballast for the distance at right angle to the track.

4.4 Ballast from stacks shall be lifted only after the contractor is authorized to do so, in writing, by the authorized railway representative. Quantity of ballast for payment under this item shall be the quantity as recorded in MB for supply of ballast.

3.5 The contractor will take all safety precautions while leading & spreading of ballast and doing dressing/ boxing or making ballast profile in running traffic condition.


3.6 The contractor may have to lift only part quantity of ballast from one stack, for which the payment shall be done on lump sum basis as assessed by the AEN/XEN concerned and final payment shall be made only after the complete stack is lifted.

3.7 Ballast from stacks will be lifted only after it is handed over specifically.

3.8 The contractor will take all safety precautions while dumping/ spreading ballast into running track.

3.9 Putting and spreading ballast will be done in stages as per requirement, excess ballast to be removed by the contractor at his own cost.


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3.10 Item includes spreading, dressing of ballast. Contractor shall deploy sufficient labour and T & P to achieve adequate progress of this activity, so that other connected activities may not suffer.

3.11 Mode of Payment:

- (a) 80% proportionate payment against this item will be made on putting the ballast in track
- (b) 20% payment against this item shall be made after boxing, dressing in required profile as per P-Way manual.
- (c) in case contractor fails to complete boxing, dressing as per required profile, or Railways deploy ballast regulator for this work, recovery at the rate of Rs.20/- per running meter of track shall be made.

4.0 NS-4 - Loading and leading of stone ballast from the stacks and spreading /putting thereof into the track to make good the deficiency at different locations including all handling, descent, crossing of track, nallah, dressing and boxing to make standard ballast profile with contractor's own labour, T & P, as per direction of Engineer in charge or his authorized representative. Lead shall be measured along the alignment. The item, dressing and boxing of the ballast as a complete item, for which nothing extra shall be paid. - For lead above 500m and up to 1.00 Km.

4.1 The lead shall be measured by the shortest rail route.

4.2 If the material gets lost/ damaged during transit recovery shall be made from the contractor.

The rate of recovery for new material shall be twice the procurement price plus 7% freight charges along with 12¹/₂% supervision charges.

4.3 Ballast from stacks will be lifted only after it is handed over specifically.

4.4 Quantity for payment of ballast leading will be as recorded in MB for supply of ballast only.

4.5 Spreading of ballast shall be done to BG profile as per IRPWM, other guidelines and as directed by Engineer in-charge.

4.6 The contractor will take all safety precautions while dumping/ spreading ballast into running track.

4.7 Putting and spreading ballast will be done in stages as per requirement, excess ballast to be removed by the contractor at his own cost.

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5.0 NS-5 - Manufacturing, supplying & fixing of pre-fabricated RCC coping stone of size 530mm x 1125mm x 100mm thick as per top face designed and approved by site Engineer with M-30 grade RCC with 8 mm dia. tor steel at 150mm c/c both ways and manufactured by vibro compaction process using jointless FRP/GRP steel moulds of required size, shape & design. The item includes cost of cement, reinforcement, transportation etc. (Note : Under layer of cement mortar to be laid as per site conditions & should be paid for separately)

- (i) The rates inclusive of manufacturing, transporting and fixing.
- (ii) The rate of all the material like cement, steel etc. which are required for manufacturing and fixing are inclusive in the rate.
- (iii) Before fixing the strength of the coping shall be tested in the NABL approved laboratory.
- (iv) On the basis of the strength the material will be approved by the Engineer in charge.

6.0 NS-6 - Supplying, erecting and fixing precast concrete reinforced bench with reinforced back rest. Bench shall consist of 2 nos. L shaped base support in natural cement colour of thickness 100 mm, back height 1000 mm, front height 450 mm, base width 620 mm and 5 nos. reinforced concrete planks in red colour and size of 1500 x 100 x 50mm and 1 no. reinforced concrete plank of 1500 x 200 x 50mm; manufactured by using M-30 grade concrete & reinforced suitably; all parts to be joined with galvanized nuts and bolts of suitable size. All bolts to be sealed after assembly. Complete job to be done as per directions of Engineer In charge.

1. **General Requirement:** The precast concrete reinforced benches shall be manufactured in accordance with the design requirements and details shown in the Drg. No.-RDSO/WKS/2014/3, and in conformity with the requirements of this specification and Item no. NS/6.
2. **Materials and Construction Methods:** The material and construction of precast concrete reinforced benches will be as follows:
 - (i) **Concrete Mix Design:** The benches shall be cast using M-30 Grade concrete mix in accordance with IS:10269: 2009 (with latest amendment) in gray cement by using vibro – compaction technique and with reinforcement as detailed in this specification. The manufacturer shall be responsible to design a mix which achieves both the strength and the surface finish required for the installation and application. Compressive strength shall be not less than 30 MPa at 28 days.
 - (ii) **Reinforcement Steel:** TMT reinforcement bars conforming to IS: 1786:2008 of dia. 10 mm shall be used as main reinforcement bar and 4mm dia. mild steel bars shall be used as stirrups as per reinforcement diagram.
 - (iii) **Connections:** 12mm dia. x 65mm long galvanized steel CSK (Countersunk) bolts with EVA (Ethylene Vinyl Acetate) washer for connecting seating plank with leg and half threaded carriage bolts & nuts with EVA & steel washers of size 165mm length x 8mm


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dia. for connecting back rest plank with leg. Threaded steel fastener shall confirm to IS:1367 with latest amendments.

- (iv) **Paint:** Red color acrylic-based paint (Other color may be used, if decided by Engineer-in-charge) confirming to IS:15489 should be used.

3. Details of member of precast concrete reinforced bench:

- (i) **RCC Base Supports:** Two number of legs manufactured using M-30 grade grey cement concrete of back height 1000mm, front height 400mm, bottom width 620mm with 100mm thickness. Each leg shall be reinforced with 4 nos. of 10mm dia. TMT bars distributed uniformly along the section and periphery of the legs and tied with 4mm dia. mild steel stirrups as per detailed given in drawing. Each leg will have 3 nos. 12mm dia. 65mm length galvanized coupling nuts, welded suitably to the main reinforcement at appropriate locations on the seating to receive concrete planks on the legs and 3 holes to receive carriage bolts for fixing back rest planks.

- (ii) **Planks:** Five RCC planks of size 1500mm x 100mm x 50mm shall be cast using M-30 Grade grey cement mixed with 3% red pigment (Other color may be used, if decided by Engineer) and each plank reinforced with 2 nos. 10mm dia. TMT bars along the length and 10 nos. 4mm dia. mild steel bars along the width and having 2 holes of 14mm dia. at appropriate location to receive 12mm dia. galvanized bolts for fixing these planks on the legs. One RCC plank of size 1500mm x 200mm x 50mm shall be cast using M-30 grade grey cement concrete mix with 3% red pigment (Other color may be used, if decided by Engineer) and shall be reinforced with 3 nos. 10mm dia. TMT bars along the length as per drawing and 10nos. 4mm dia. mild steel bars along the width and having two holes of 14mm dia. at appropriate location so as to receive 12 mm dia. galvanized bolts for fixing on the legs.

4. **Finish:** Finish of concrete bench shall be generally equal to the approved sample. Exposed surface should exhibit a typically uniformly smooth texture with no bug holes and smooth mold seams.


5. **Tolerances:** All dimensions should be as per drawing ± 3 mm.

6. Product Delivery, Handling and Storage:

- (i) Deliver materials to site, ready for use in the accepted manufacturer's original and unopened containers and packaging, bearing labels as type of material, brand name/manufacturer's name.
- (ii) Store materials under cover in a dry and clean location, off the ground. Remove delivered materials which are damaged or otherwise not suitable for installation from job site, and replace with acceptable materials as directed by the engineer.

7. **Installation of RCC bench:** Each seating plank (bottom) of bench will be bolted with the leg with the help of 12 dia. x 65mm length galvanized steel CSK (Countersunk) bolts with EVA (Ethylene Vinyl Acetate) washer. Back rest planks will be fitted with half threaded

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carriage bolts and nuts with EVA and steel washers of size 165mm length x 8mm dia.

After assembly of legs and planks at site, the hole visible at the back side of the bench will be sealed with cement mortar to prevent pilferage and plank will be painted with red color acrylic-based paint (Other color may be used, if decided by tendering authority). Head of bolts shall be grouted with epoxy resins like Araldite.

8. **Measurement:** The unit of measurement shall be as complete bench.
9. **Payment:** The price shall cover the manufacturing, handling and installation including labour, material and equipment.

7.0 NS-7 - Fabricating, supplying and installing stainless steel 3/4-seater benches with or without back rest of size and shape as per design and drawing approved by Engineer In-charge. Bench shall be manufactured from stainless steel 304 Grade with perforation made with turret punching machine and rolled on roller machine. Steel to be either laser cut or water jet cut (no shearing). Polishing to be done with automatic polishing machines to give mirror polish. All parts to be connected with suitable CNC made connectors and counter sunk screws etc. Welding to be done with suitable SS 304 Grade welding rods and treated with K-2 solution. Joints shall be finished ensuring that no welding marks are visible. Fixing at site should be done with suitable SS base plate and dash fasteners. Manufacturer shall submit maintenance manual and basic material test report for grade certification.

1. **General Requirement:** The stainless-steel benches with or without back rest shall be fabricated in accordance with the design requirements and detailed as per drawing No.-RDSO/WKS/2014/4, in conformity with the requirements of this specification.
2. **Materials description:** The benches shall be manufactured using Stainless Steel 304 grade conforming to IS:6911/ASTM A240/A240M.
3. **Fabrication description:** The 3/4-Seater Bench with or without back rest, shall be manufactured using Stainless Steel 304 grade matt finished as per design. Stainless Steel sheet/plate shall be of 16-gauge, round pipe shall be of 50/40mm dia. and 2mm thickness, square pipe shall be of size 50mm x 50mm and 2mm thickness, base plate shall be 8mm thick and Stainless-Steel fastener shall be of size 10mm x 100mm. The punching/perforation in seating plate and back rest shall be done by 'Turret punching machine as per approved sample for punching pattern. All fabrication work shall be done on roller machine by CNC Laser cutting and Argon welding. The Argon welding shall be done by TIG (Tungsten inert gas) Arc welding method as per IS:9604. Joints shall be welded under controlled condition to avoid formation of crack and metal flow at welding point by using tungsten electrodes as per IS:13907 and SS304/SS304L grade filler material. Welds should be treated with K-2 solution. All the joints shall be finished and polished using automatic polishing machine to match with parent material.

Bench Detail:


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Length: 1750mm (1300mm for three-seater)

Width: 450mm

Clear Height: 450mm

Base Plate to be fixed on ground: 400mm x 120mm x 8mm

Connecting leg: 320mm x 40mm (For connecting base plate to seat)

Back rest detail:

Length: 1750mm (1300mm for three-seater)

Width: 300mm

Seat and back rest connecting pipe shall be of 50/40mm dia. and 2mm thickness.

Clear Height of bench with back rest: 890mm

4. **Finish:** All the surface of bench should be uniform smooth mirror finish as per table 8 of IS:6911, polished with automatic polishing machine and free from crack and seam. Welding joints shall be finished ensuring that no welding marks are visible.
5. **Tolerance:** All dimensions (except thickness of SS plate/pipe) shall be as per drawing +2 mm. Stainless steel plate thickness tolerance shall be as specified in IS:6911-1993 with latest amendment.
6. **Measurement:** The unit of measurement shall be in Kg as per Item No. NS-7 of Schedule-C.
7. **Payment:** Payment will be done as per Item No. NS-7 of Schedule-C. This price shall cover the fabrication, handling and installation including labour, material and equipments, Manufacturer should provide maintenance manual and basic material test report for steel grade certification.

OTHER SPECIAL CONDITION OF TENDER

1. Measurement of works by Contractor's Authorized Representative shall be applicable in this contract in terms of clause no. 45, Part-II of GCC-2022 with up to date Correction slips.


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