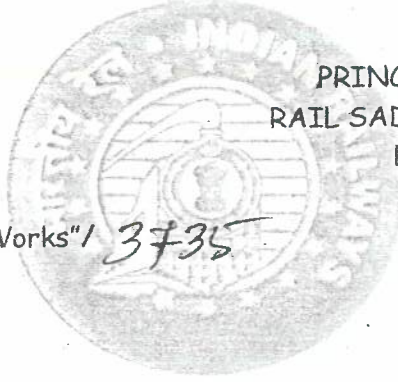


EAST COAST RAILWAY



OFFICE OF THE
PRINCIPAL CHIEF ENGINEER
RAIL SADAN CHANDRASEKHARPUR,
BHUBANESWAR 75.

No. W2/623/Policy "Similar Works"/ 3735

Date: 24.06.2024.

To
The Sr. DEN (Co-ord)
East Coast Railway
Khurda Road, Sambalpur & Waltair

Sub: List of similar nature of works for different categories of work for Works Contract (Revised-3).

Ref: This office letter No. W2/623/Policy "Similar Works"/6047 dtd. 10.07.2018 and letter No. W2/623/Policy "Similar Works"/5296 dtd. 23.06.2023.

The definition for similar nature of work for various works in open line were issued during 2007 which was again 1st updated in the year-2018 vide this office letter No. W2/623/Policy "Similar Works"/6047 dtd. 10.07.2018 and 2nd updated in the year-2023 vide this office letter No. W2/623/Policy "Similar Works"/5296 dtd. 23.06.2023.

As some other definition for similar nature of works have been approved after the works circulated in the list in 2023, an attempt has been made to compile all the definitions for similar nature of work for various works issued time to time from 2007 till date.

Now, again a fresh 3rd updated list for definition for similar nature of works is circulated herewith for reference and record of all concerned. Every care has been taken to avoid any error. However, any error noticed may please be brought to the notice of the undersigned within 15 days of circulation of this list.

Hope, this will be handy and useful for the divisions.

Encl: As above,

[Signature]
24.6.24.
(L. N. Panigrahi)
Dy. Chief Engineer/General

Copy for information and necessary action to:

CTE, CBE, CPDE, CE (RSW), CE/TM, CE/TP, CGE & CE/Br. REHAB.

✓ Dy. CE(Plg)/ECoR/BBS is requested to upload in the ECoR website.

[Handwritten signature]
24/6
To update in
ECoR site

[Signature]
24.6.24.
Dy. Chief Engineer/General

LIST OF SIMILAR NATURE OF WORKS FOR DIFFERENT CATEGORIES OF WORK FOR WORKS CONTRACT
(Revised-3)

Sl.No.	Category of work	Definition of Similar nature of Work	Remarks
Survey work:			
1	Conducting Preliminary Engineering Survey	Conducting Civil Engineering Survey work in Road/Railway alignment or Major Irrigation project or Topography Survey.	
2	Conducting Final Location Survey	Conducting detailed Civil Engineering work in Road/Railway alignment or Major Irrigation project.	
Soil Exploration Works:			
1	Execution of geo-technical survey/soil exploration work.	Execution of soil exploration works for construction of Major Bridges/Tunnels/Pile Foundation for Major Structures etc.	
2	Carrying out detailed Geotechnical investigations of Tunnels using modern investigation techniques i.e. LIDAR/3D Laser/Infrared Scanning/Ground Penetrating Radar (GPR) for Geological Mapping and subsurface investigation. This includes submission of technical report based on investigation clearly indicating condition of lining, stability of Tunnel, condition, rock fall and seepage mitigation measures warranted along with scheme and related drawings, BOQ and technical specifications for method and materials suggested.	Work of Geotechnical investigations and stability analysis of Tunnel (Railway/Highway/Metro/ Hydraulic structure) using modern NDT techniques e.g. LIDAR, 3D laser/Infrared Scanning, GPR etc. involving Geological Mapping, subsurface investigation etc.	
Earthwork, Minor Bridges, P.Way Linking, Ballast Supply & Transportation:			
1	Execution of earthwork in formation in cutting or in bank with blanketing, mechanical compaction and other allied works.	Execution of earthwork in formation in cutting or in bank with mechanical compaction.	
2	Execution of earthwork in formation in cutting or in bank with blanketing, mechanical compaction etc. and construction of minor bridges (i.e. hume pipe bridge/box culvert/Flat top etc.).	Execution of earthwork in formation in cutting or in bank with mechanical compaction and construction of minor bridges (RCC Box bridges or Hume pipe bridges or Flat Top RCC bridges).	
3	Execution of earthwork in formation in cutting or in bank with blanketing, mechanical compaction etc. and construction of minor bridges (i.e. hume pipe bridge/box culvert/Flat top etc.) and P.way linking work.	Execution of earthwork in formation in cutting or in bank with mechanical compaction and construction of minor bridges (RCC Box bridges or Hume pipe bridges or Flat Top RCC bridges) and P.way linking work (CTR/TSR/TRR also).	

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4	Execution of earthwork in formation in cutting or in bank with blanketing , mechanical compaction etc. and construction of minor bridges and p.way linking work including supply of ballast with or without transporation of materials.	Execution of earthwork in formation in cutting or in bank with mechanical compaction and construction of minor bridges (RCC Box bridges or Hume pipe bridges or Flat Top RCC bridges), P.way linking work (CTR/TSR/TRR also) and supply of machine crushed hard stone ballast.	
5	Execution of earthwork in formation in cutting or in bank with blanketing , mechanical compaction etc. and construction of minor bridges (HP, box culvert, FT etc.) and building works.	Execution of earthwork in formation in cutting or in bank with mechanical compaction and construction of minor bridges (HP/Box culvert/FT).	
6	Execution of P.way linking work (in main line or yard).	Execution of P.way linking works (CTR/TSR/TRR also)	
7	Execution of P.way linking work including supply of ballast (in main line or yard)	Execution of P.way linking works (TSR/TRR/CTR also) including supply of machine crushed hard stone ballast.	
8	Supplying of machine crushed stone track ballast	Supply of machine crushed hard stone ballast.	
9	Loading, unloading and transportation of cement or steel or any other material.	Loading, unloading and transportation of any material.	
10	Loading, unloading and transportation of Railway's P.way materials.	Loading, unloading and transportation of any material.	
11	Loading, unloading and transportation of Rails, sleepers (ordinary, special and turn out sleepers etc.).	Loading, unloading and transportation of any material.	

Major Bridges:

1	Construction of foundation and sub-structure of major bridge with open foundation.	Construction of major bridge with open/well/pile foundation.	
2	Construction of foundaiton and sub-structure of major bridge with well foundation	Construction of major bridge with well foundation	
3	Construction of foundation and sub-structure of major bridge with pile foundation.	Construction of major bridge with pile/well foundation.	
4	Construction of major bridge with open foundation and RCC girder (if launching is required, please mention).	Construction of major bridge with open/ well/ pile foundation and RCC/PSC girder bridge (if launching is required, please mention).	
5	Construction of major bridge with well foundation and RCC girder (if launching is required, please mention).	Construction of major bridge with well foundation and RCC/PSC girder bridge (if launching is required, please mention).	
6	Construction of major bridge with pile foundaiton and RCC girder (if launching is required, please mention).	Construction of major bridge with pile/well foundation and RCC/PSC girder bridge (if launching is required, please mention).	

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7	Construction of major bridge with open foundation and PSC girder (if launching is required, please mention).	Construction of major bridge with open/pile/well foundation and PSC girder (if launching is required, please mention).	
8	Construction of major bridge with well foundation and PSC girder (if launching is required, please mention).	Construction of major bridge with well foundation and PSC girder bridge (if launching is required, please mention).	
9	Construction of major bridge with pile foundation and PSC girder (if launching is required, please mention).	Construction of major bridge with pile/well foundation and PSC girder bridge (if launching is required, please mention).	
10	Construction of major bridge with open foundation and supplying fabrication, erecting and launching of steel girder.	Construction of major bridge with open/well/pile foundation and supplying, fabrication, erecting and launching of heavy steel structural items.	
11	Construction of major bridge with well foundation and supplying, fabrication, erecting and launching of steel girder.	Construction of major bridge with well foundation and supplying, fabrication, erecting and launching of heavy steel structural items.	
12	Construction of major bridge with pile foundation and supplying, fabrication, erecting and launching of steel girder.	Construction of major bridge with pile/well foundation and supplying, fabrication, erecting and launching of heavy structural items.	
13	Construction of super structure of RCC girder in major bridge (if launching is required, please mention).	Construction of major bridge with RCC/ PSC girder (if launching is required, please mention)	
14	Construction of super structure of PSC girder in major bridge (if launching is required, please mention).	Construction of major bridge with PSC girder (if launching is required please mention).	
15	Construction of super structure of steel girder bridge including supplying, fabrication, erection and launching in major bridge.	Supplying, fabrication, erection and launching of heavy steel structural items.	
Further Added Items			
16	Jacketing of Major Bridges for piers and abutments.	Construction of any type of bridge/bridge jacketing works.	
17	Instrumented Health of Railway Bridges.	Instrumentation of any type of Railway/Highway Bridges	
18	Conversion & rebuilding of bridges by micro tunneling method.	Execution of tunneling/micro tunneling work with minimum 1.20 mtr diameter/width.	
Road Over Bridges/Road Under Bridges:			
1	Construction of ROB/RUB with open foundation and PSC girder (if launching is required, please mention).	Construction of major bridge with open/pile/well foundation and PSC girder (if launching is required, please mention).	
2	Construction of ROB/RUB with open foundation and RCC girder (if launching is required, please mention).	Construction of major bridge with open/pile/well foundation with RCC/PSC girder (if launching is required, please mention).	

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3	Construction of ROB/RUB with pile foundation and PSC girder (if launching is required, please mention).	Construction of major bridge with pile/well foundation of RCC/PSC girder (if launching is required, please mention).	
4	Construction of ROB/RUB with pile foundation and RCC girder (if launching is required, please mention).	Construction of major bridge with pile/well foundation and PSC/RCC girder (if launching is required, please mention).	
5	Construction of ROB/RUB with open foundation and composite girder involving launching of girder.	Construction of ROB/RUB /Major Bridge with open/pile/well foundation and composite girder including supplying, fabrication and launching of girder.	
6	Provision of Low Cost ROB in lieu of Unmanned Level Crossing.	Construction of any ROB/RUB/LHS/ including launching of girder/slab/ segments.	
Further Added Items			
7	Construction of ROB (Railway portion) with Steel/ Composite superstructure with Open/Pile foundation.	Execution of bridge/ROB works having superstructure of steel/composite girder/ bowstring girder/Open web girder of span 24 meters and above with substructure and superstructure complete.	
Building Works:			
1	Construction of single/double storied building or staff quarters.	Execution of building works.	
2	Construction of multi storied buildings or staff quarters.	Execution of multistoried building works.	
3	Construction of Building with RCC framed structure having any type of shell roof or flat roof.	Construction of any building with RCC framed structure.	
4	Construction of staff quarters including colony roads.	Execution of building works.	
5	Renovation of Booking office, Enquiry office, PRS, Retiring room, dormitory, 1st class waiting hall, 2nd class waiting hall at A & B category stations.	Construction/repairs/renovation of buildings.	
6	Execution of Pre-fabricated buildings using structural steel frame & EPS core wall panels.	Execution of building work, with RCC framed structure or with load bearing steel structure.	
7	Construction/Up-gradation of RCC Pit Line works, catwalk, water hydrant pipe line, drainage work and building work.	Construction/Up-gradation of RCC Pit line /Execution of Civil Engineering work with RCC framed structure.	
8	Execution of any Building work including providing Fire Fighting Measures as a composite work.	Execution of any Building work including providing Fire Fighting Measures as a composite work./Execution of Fire Fighting Measures in Building.	
Further Added Item			
9	Supply, Installation, testing and commissioning of fire fighting systems in existing buildings.	"Execution of any Building work including providing Fire Fighting Measures as a composite work" or "Execution or Maintenance of Fire Fighting Measures in any Building/Station/Airport/Factory etc".	

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Miscellaneous Works:			
1	Supplying, fabrication and erection of steel structure in FOBs or platform shelter or roof trusses in sheds/godowns etc.	Execution of fabrication & erection of steel structural works.	
2	Manufacture, supply and fixing of bridge girders/steel channel sleepers or any steel structural works.	Execution of fabrication & erection of steel structural works.	
3	Construction of RCC Over Head Tank including water supply arrangement.	Construction of RCC framed structure of similar height/Building work of (G+4) and above.	
4	Installation of deep tube well along with hand pump.	Installation of deep tube well along with related works.	
5	Installation of deep tube well along with submersible pump of respective capacity.	Installation of deep tube well along with submersible pump of respective capacity or more.	
6	Hiring of vehicles.	Providing hired vehicles.	
7	Execution of miscellaneous work such as side drains, protection works, boundary walls etc..	Execution of any Civil Engineering works.	
8	Execution of road works (Specify WBM/Black top etc. as per requirement).	Execution of road works (Specify WBM/Black top etc. as per requirement).	
9	Execution of water supply works.	Execution of water supply related works.	
10	Execution of landscaping and horticulture work such as development and maintenance of lawns, flower beds, road side plantation etc. and other ancillary work.	Execution of landscaping or horticultural works.	
11	Construction of underground water tank.	Construction of RCC framed structure OH tanks, construction of Earth retaining structure.	
12	Construction of septic tank with sewer lines.	Execution of sanitary related works.	
13	Execution of P.way works like CTR(P), CTR(S), TRR, TTR, Deep Screening, shallow screening, distressing, P.way zonals (either manual/machine working) and reconditioning of Points and X-ings etc..	Execution of any P.way related works.	
14	Supply of Welding portions and pre-fabricated moulds.	Supply of pre-fabricated moulds, AT welding portions etc., from RDSO's approved sources.	

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15	Supplying and loading/ spreading of machine crushed ballast.	Supply of machine crushed hard stone ballast for Railway Track. OR Any work in which item of PSC, RCC, PCC, Road works or any other item in which machine crushed stone aggregates are used or supplied. In such cases only 50% of the value of items such as PSC, RCC, PCC, Road work etc. including items for Cement and Steel if paid separately in a single work will be considered for eligibility criteria.	
To illustrate the above, the following example is given below:			
(a)	Advertised value of supply and spreading of machine crushed ballast tender under consideration		Rs. 10 Crores
(b)	Eligibility Criteria		
	(iv) One work of similar nature, execution with a minimum value of 60% of advertised value in the last 7 years.		Rs. 6 crores
	(v) Two works of similar nature, execution with a minimum value of 40% of advertised value in the last 7 years.		Rs. 4 crores
	(vi) Three works of similar nature, execution with a minimum value of 30% of advertised value in the last 7 years.		Rs. 3 crores
(c)	Against the above advertised tenders, the following credential is submitted for work completed in that last 7 years as follows		
	(viii) Total Value of work (composite work comprises of items such as RCC, MCC, Road work where machine crushed stone ballast is used. Certain items have usages of hand broken items also)		Rs. 26 crores
	(ix) Value of items involving PCC with machine crushed aggregates.		Rs. 2 crores
	(x) Value of items involving RCC which machine crushed aggregates		Rs. 8 crores
	(xi) Value of items involving road work (WBM, base course, surface course, wearing courses etc) involving machine crushed stone aggregates		Rs. 2 crores
	(xii) Value of any other items involving machine crushed/aggregates		Rs. 1 crore
	(vi) Value of items involving PCC, road work etc., involving hand broken stone aggregate		Rs. 2 crores
	(vii) Value of other items [other than (i) to (v)] not involving any use of stone aggregates.		Rs. 11 crores
		Total	Rs. 26 crores
(d)	Value of items PCC, RCC, Road work etc., involving use of machine crushed stone aggregates only.		Rs. 13 crores
(e)	50% of value of (d) above		Rs. 6.5 crores
(f)	The party fulfills eligibility criteria regarding having executed one similar nature of work (60% of advertised tender value)		

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16	Civil zonal contracts, earth work in embankment, repairs to cess, widening of bank, pipeline works, formation treatment, protection works repairs to spalling slabs of bridges, repairs to roof slab repairs of buildings, repairs to washable aprons or any other type of civil works.	Construction/repairs/maintenance of any Civil Engg. Works.	
17	Execution of Bridge Zonal works for Bridges.	Execution of fabrication and erection of steel structural works for Bridges (FOB/ROB/Bridges).	
18	Strengthening of existing RCC pipe bridges	"Execution of civil engineering works comprising of supply/Fabrication and launching of steel girders/Structures/Sheds/composite steel girder".	
19	Repairs of submerged portion of piers & abutments of bridges.	Construction/repairs/maintenance of any Civil Engg. Works.	
20	Repairs of submerged portion of piers, abutments and foundations of bridges.	Under water repairs to piers and/or abutments and/or foundations of bridges.	
21	Painting of girder bridges/Foot over bridges/Painting of rails etc.	Any type of painting works like bridge painting, workshop painting, stanchions painting with bituminous/epoxy/red oxide/zinc chromite etc. and painting of industrial appliances.	
22	Zinc Metalisation and painting of Rails.	Execution of the work of any type of metalisation of steel bridge components/ any steel structure/rails/industrial appliance with or without painting.	
23	Formation treatment work	Any type of formation treatment works executed in the past or execution of earth work in formation in bank with moorum/sand with mechanical compaction.	
24	Formation treatment with Geogrid technique.	Any type of formation treatment works executed in the past or execution of <u>any earth work in formation with approved materials with mechanical compaction.</u>	
25	Metalyzing and Painting of Girder bridges/ foot over bridges/ painting of rails etc..	Any type of metalyzing/painting works like bridge painting, workshop painting, stanchions painting with bituminous/ epoxy/red-oxide/zinc chromite etc. and painting of industrial appliances.	
26	Construction of cut & cover tunnel.	Execution of Concrete retaining walls/framed structures/major PSC/RCC works.	
27	Protecting side slopes of cuttings with steel wire rope net and chain link mesh netting.	Execution of wire ropes/chain link mesh work/construction of RCC retaining walls in cutting slopes or embankment slopes.	
28	Painting of rails	Any type of painting works like bridge painting/ rail painting/workshop painting/stanchions painting with bituminous/epoxy/red oxide/zinc chromite etc. and painting of industrial appliances.	

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29	Construction of bridges/culverts using Box pushing technique.	Execution of works of construction of bridges/ rebuilding of bridges or regirdering of bridges/ launching of slabs under the running track.	
30	Collection of site details of bridges including soil exploration and preparation, digitization & supply of missed drawings.	Preparation and digitization of any under ground/under structure including soil exploration.	
31	Digitisation of available / approved bridge drawings.	Digitisation of drawings.	
32	Construction of R.C.C. hume pipe bridges	Construction of any type bridges.	
33	Construction of washable apron by conventional method, RHEDA 2000 system etc..	Construction of RCC apron/RCC Bridge work/Building work having framed structure.	
34	Execution of RCC road works.	Execution of RCC road works/RCC bridge works/ RCC work in framed structure of buildings and other structures.	
35	Upgradation of road surface by providing rubberised surface pads at level crossings.	Supplying and laying rubberised surface pads at level crossings.	
36	Construction of Limited Height Subways by cut & cover method.	Any civil work consisting RCC Work.	
37	Provision of pipe line, RCC OH Tank of 2,25,000 ltrs capacity and ground water reservoir tank for augmentation of water supply.	Execution of Civil Engineering work with RCC framed structure/ execution of RCC OH tank.	
38	Miscellaneous maintenance works of mechanized cleaning and sanitation (Up Keeping) of East Coast Railway Head Quarters building & its premises at Chandrasekharapur, Bhubaneswar.	Mechanized cleaning & sanitation (Up-keeping of service building, Govt. Hospital & Corporate house).	
39	Counseling to road users by deploying Gate Counselors at unmanned level crossing gates.	Counselling to road users by deploying gate counsellors/road counsellors and/or rendering services of watch and ward by deploying requisite manpower.	
40	Manufacture/Supply/fabrication & launching of Composite steel girders.	Execution of Civil Engineering works comprising of supply/fabrication & launching of steel girders/structures/sheds/composite steel girder.	
41	Construction/repair/ maintenance of sewage treatment/water treatment plant along with its related works.	Construction/repair/maintenance of any sewage treatment plant/water recycling plant.	
42	Execution of sheet piling, cross bracings and relieving girder related works.	Execution of works of construction of bridges/rebuilding of bridges or regirdering of bridges/launching of slabs under the running track.	

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43	Flash Butt welding (FBW) of 60 Kg/52 Kg rails including USFD testing of welded joints conforming to Indian Railway Manual for Flash Butt Welding using Contractor's self-propelled Rail-cum-Road Mobile FBW Plants."	Welding of rails by mobile Flash Butt Welding Plants"	
44	Installation & commissioning of water level monitoring system on bridges and integration of the same with TMS.	Installation & commissioning of water level monitoring system on bridges and integration of the same with TMS along with satisfactory completion of warranty/maintenance period.	
45	Proposed AMC of Electro Chlorinators.	Any Original Electro-Chlorinator Manufacturer (OEM) or Authorized Service provider of any Electro-Chlorinator Manufacturer. OR Firm having previous experience in operation and maintenance of Electro-Chlorinator plants.	
46	Construction/installation/ erection of Modular Kitchen.	Construction of Building Work with provision of Modular Kitchen/supply and fixing of Modular kitchen. OR Supply and fixing of Modular Kitchen. OR Execution of interior furnishing works in building.	
47	Fabrication of glued insulated joints 60Kg/52Kg (In-Situ).	Execution of work of manufacturing and fabricating in-situ glued joints as per RDSO specifications. OR Manufacturing of pre-fabricated glued joints as per RDSO's specifications. OR Also the firms shall have RDSO approval for the above said work.	
Hiring of Manpower			
1	Manning of Level Crossing gates by deployment of Ex-servicemen	Deployment of Ex-servicemen (ESMs) for any services through Director General Resettlement (DGR) empanelled Security Agencies or State Govt owned ESM corporation.	
2	Outsourcing of Track Machine maintenance activities.	Repairs and reconditioning of Track Machine OR Repairs and supply of spares to Track Machines OR Outsourcing/Supply of staff for operation/maintenance of Track Machines.	
3	Outsourcing of cooking activities for Track Machines.	Catering/Cooking activities in Track Machine Camping coaches or Railway stations or Pantry cars or Rest houses of any Government organizations/Institutions or PSU.	

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