

## BOQ & PRICE BID FORMAT (OPGC II)

### Maintenance of P-way / Track, Bridge & Other Civil Miscellaneous works from Gidhaghara to Manoharpur Station

Sl. No.	Description of Work	UOM	Qty. for Track 1st year	Unit Rate for 1st year	Total Amount for 1st Year	Qty. for Track 2nd year	Unit Rate for 2nd year	Total Amount for 2nd Year
	<b>Total length in ETKM</b>		<b>29.45</b>					
1	Through packing of Broad Gauge Railway straight/curved track of any sleeper with stone ballast to maintain correct alignment, cross and longitudinal level as required for maintaining track gauge,, etc on both straight and curve track with contractors tools and labors inclusive of all charges as per IRPWM and as directed by EIC on our MGR track line including hopper, loading yard & unloading yard.	M	29449			29449		
2	Slack packing of track as and when required with contractor tools and labors inclusive of all charges as per IRPWM manual.	M	22086.75			22086.75		
3	KEY MAN : Daily examination of complete track and tightening their fittings by deploying of key man for daily patrolling with mobile phone and checking the track for 8 hours for length of 3 to 5 KM by each key man ` with tools and plants. The patrolling shall be 8 AM to 5 PM. The key man shall carry out job for tightening of ERCs, liners, rail screws, plate screws, points & crossings fittings, guard rail fittings, trap switch fittings.	Manday	2160			2160		
4	Ballast profiling, boxing and dressing with special attention at curves etc.	M	8000			8000		
5	Maintenance of points and crossing and minor rectification like alignment and lubrication, proper crossing gauge on the check rail and its adjustment for clearance to the correct profile with through packing as per requirement.	No	252			252		
6	Retired PWI Inspection for P-Way points & crossing / fish plates/ clips/ track alignment rain cuts, holes and complete track defects if any etc by OPGC push trolley or motorized trolley with agency gang man/trolley man. Weekly thrice or as per instruction of EIC based on work requirement. The PWI should maintain inspection and "Daily Material Transaction Register" for submission at the end of month to EIC. The agency / contractors PWI will prepare and maintain a "Section Register" to record important details of the track/section.	No	288			288		
7	Painting of check Rail both ends with white paints of approved brand up to a length of 200 mm in the rail. Material and brushes are to be supplied by OPGC.	M	200			200		
8	Jim crewing of KINKY Rail and Tongue Rail. Remedial measures are to be done during buckling of track.	No	91			91		
9	Realignment of curve/readjustment of vertical curve as and when required involving slewing of track with desired versine followed by one KATCHA packing/through packing as per requirement.	M	6000			6000		

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10	Maintenance of meter / Km / Curve / signal post lying along the MGR track (Post / Indicator & paints shall be supplied by the OPGC). Calculation and marking of Station No., Super elevation, chain age and versine etc. marking of Kilometer post (chain age), creep indicator post, points and crossing station number of curves, super elevation of curves, transition length posts (TPTC, TPCC), degree of curvature post, versine of curve, HFL of bridges, danger level of bridges etc.	M	24000			24000		
11	Removing weeds & bushes in ballast section and cess upto 3.5m from centerline of track in section & station yard, as specified by Engineer In-charge including disposal of branches, bushes outside cess/yard	M	8000			8000		
12	Minor Cess repair including cess cutting, filling, and repair of minor rain cuts on embankment as and when required.	CUM	400			400		
13	Maintenance of manned and unmanned level crossings with proper lubrication etc. as per IRPWM manual. Material are to be supplied by OPGC	No	2			2		
14	ERC re-greasing as per IRPWM manual. Material & Grease to be supplied by OPGC	No	160000			160000		
15	Emergency maintenance & repair of track at any section during dislocation/derailment of track. All material shall be supplied to you by OPGC. The cutting and welding staff for repair shall be arranged by the agency. OPGC shall provide material for that work along with gases etc. Repair of rail for minor crack due to accident and derailment shall be done by the agency(Engagement gang man)	Manday	100			100		
16	Emergency maintenance & repair of track at any section during dislocation/derailment of track. All material shall be supplied to you by OPGC. The cutting and welding staff for repair shall be arranged by the agency. OPGC shall provide material for that work along with gases etc. Repair of rail for minor crack due to accident and derailment shall be done by the agency ,(Engagement supervisor	Manday	50			50		
17	Supervision of Emergency maintenance & repair of track at any section during dislocation/derailment of track by <b>engaging PWI</b> . All material shall be supplied to you by OPGC. OPGC shall provide material for that work along with gases etc.	Manday	10			10		
18	Greasing of face of outer Rail in the curve as per instruction of EIC. Grease shall be supplied by OPGC.	M	12000			12000		
19	Side drain, catch water drain and cross drain cleaning work on any place of track for preventing the damage of track.	M	10000			10000		
20	Gang patrolling shall be done during abnormal rainfall. Pre-monsoon precautionary measures comprising clearing of vent ways shall be done by engagement of manpower (Gang man)	Manday	40			40		
21	Gang patrolling shall be done during abnormal rainfall. Pre-monsoon precautionary measures comprising clearing of vent ways shall be done by <b>Engaging Supervisor</b>	Manday	40			40		

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22	Maintenance of gauge level, elevation, joints etc. on the track circuited area (with modification if required) at the concrete platform located near the In-motion Weighbridge at the approach of Manoharpur weigh bridge.	M	12			12		
23	Renewal of worn out / broken 1 in 8 1/2 crossing only with fitting & fastening including lead up to 30 mtr but excluding sleepers.	No	10			10		
24	Lifting of track up to 25 mm to 75 mm. Each lift not more than 25 mm	M	1500			1500		
25	Interchanging of rail when rail wear is out of limit for rake movement on casual requirement.	M	100			100		
26	Installation of PSC sleepers as per IRPWM manual.	No	20			20		
27	Renewal of worn out / broken in 1 in 8 1/2 straight /curved switches of Rail with Fitting & Fastening including lead up to 30 mtr.but excluding sleepers.	No	4			4		
28	Renewal of tongue rail left / right of 1 8 1/2 (straight and curved switch) complete with fitting and fastening including lead up to 30 mtr but excluding sleeper.	No	4			4		
29	Transportation of P way ( rail, ballast, sleeper etc) and S&T heavy material from OPGC store/any site of OPGC to any other location of our MGR system by contractors own vehicle 407, small truck of six wheeler & tractor etc including loading and unloading. Lead from 0 mtr to 5 Kilo meter	Per Trip	40			40		
30	Transportation of P way ( rail, ballast, sleeper etc) and S&T heavy material from OPGC store/any site of OPGC to any other location of our MGR system by contractors own vehicle 407, small truck of six wheeler & tractor etc including loading and unloading from 5 Kilo meter to 20 Kilo meter	Per Trip	15			15		
31	Transportation of P way & S&T material (rail, ballast, sleeper etc from store/any site of / to any other location of our MGR system by OPGC dip lorry / material trolley including loading and unloading. a) Lead Up to 1 KM	MT	30			30		
32	Transportation of P way & S&T material (rail, sleeper etc) from store/any site of OPGC to any other location of our MGR system by OPGC dip lorry / material trolley including loading and unloading. a) Lead Up to 1 KM b) Extra lead for each subsequent lead 0.5 Kilo meter / MT (Metric ton).	MT	40			40		
33	Pulling back creep in ordinary track( for single rail) for Rail/short weld Rails of 39 mtrs and re-fixing anchors & all other fittings including slack packing and Squaring displaced sleepers( Average creep 30 cm in two sides i.e 15 cm on each side rail in the running track.	M	15000			15000		
34	Renewal of Rails of any section with fitting and fastening including stacking within 30 mtrs.in connection with Rail fracture or damage.( removal of existing rail and placing new rail.)	M	260			260		

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35	Lubrication of fish plated joints, bolts and nuts as per IRPW manual(consumables like grease etc to be supplied by OPGC)	NO	4000			4000		
36	Replacement/renewal of missing fittings and fasteners ( nut bolt and ERC of the track	Each	2000			2000		
37	Replacement of GR sole plate of track	Each	40000			40000		
38	Replacement of GFN / Metal liner /ERC /	Each	4000			4000		
39	Maintenance of OPGC dip lorry checking of all the parts of the lorry for mechanical parts, proper lubrication and minor repair. OPGC shall provide spares for the work.	No	8			8		
40	Maintenance of OPGC Motorized trolley checking of all the parts of the trolley for electrical parts mechanical parts and proper lubrication. OPGC shall provide spares for the work.	No	8			8		
41	Overhauling of level crossing with proper lubrication and as per IRPWM manual	No	2			2		
42	Drilling of Rail of 60 kg by agency hand tools	No	20			20		
43	Shallow screening of track ballast in crib portion	M	2000			2000		
44	Inspection of bridge by Railway retired of SSE /ADEN level	No.	12			12		
45	Hiring of JCB for track and miscellaneous work	Hr	200			200		
46	Rail track welding with supply of raw material for welding for fracture in rail track	No	10			10		
47	Repair of cess including earth work (Earth work in ordinary soil within a lead of 100M, and lift up to 7.5M including rough dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per direction of the Engineer-In-Charge	Cum	1000			1000		
48	Conveying from stacks and spreading of stone ballast within a lead of 100m and lift up to 4.5 M	cum	2000			2000		
49	Supply of coarse sand and filling in track as per instruction of EIC	cum	200			200		
50	Cutting of Rail of 60 kg by agency hand tools	No	20			20		
51	Supply of Crusher dust in track as per direction of EIC	Cum	200			200		
52	Patrolling of track from block station to Block station by foot or OPGC trolley engaging key man and one helper for safety of rake movement in night	No	360			360		

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53	Carrying out the USFD testing of rails by SRT by using 0 degree / 4 Mhz , 37 degree / 2 Mhz and 70 degree / 2 MHz probes by NBC method as per IR standard. Specification for ultrasonic testing of rail welds as applicable to rails testing complete as directed by EIC. The testing shall cover minimum 94 % of the Railhead cross sectional area , 100 % of the web cross sectional area and 100 % of bottom flange of rail falling below web.( This shall cover the Gauge face corner defects also).The rate for testing includes cost of contractor ,labor , operator, USFD machine, Tools and plants i.e probes , couplant, etc. and all other incidentals charges related to testing work including taxes, transportation etc. The item also includes the detection marking of the defects detected as per standard Railway and RDSO practices including submission of daily reports complete.as per latest amendment of RDSO	M	56000			56000		
54	Carrying out the USFD testing of welds ( thermic and flash butt welding ) , by using 0 degree and 70 degree probes for head testing ,70 degree ( 2 Mhz ) , 20 mm x20mm single crystal probe for flange testing and 45 degree ( 2 Mhz ) / 70 ( 2 Mhz , 8 mm x 8 mm ) probe for half-moon testing as applicable as per Indian railway standard specification for ultrasonic testing of rail / weld as applicable to weld testing complete as directed by EIC . The testing shall cover 100 % flange X sectional area, 100 % web X sectional area and 94 % of weld head X sectional areas. The rate for testing includes cost of contractor, labor, operator USFD machine , tools and plants i.e probes , couplants ,etc and all other incidental charges related to testing work including taxes ,transportation etc. The item also include the detection , marking of the defects detected as railway standard RDSO and Railway practice including submission of daily report complete.	No	1435			1435		
55	Engagement of Manpower (Unskilled) for Manoharpur coal cleaning work.	Manday	3600			3600		
56	Engagement of Manpower(Semiskilled) for Manoharpur coal cleaning work	Manday	360			360		
57	Providing technical service for epoxy application on silo & approach for epoxy application , grouting , leveling of track and fixing MCI inserts	Manday	4			4		
58	Repairing of track at weigh bridge approach (Rake entry side) inserts by fast setting material. The agency is to supply material and service for leveling and tightness of insert.	Cum	0.5			0.5		
59	Grouting / anchoring of weighbridge approach with threaded rod and chemical RE 500 ( Hilti make ) / or other branded product as per EIC with all material by the agency	No	5			5		
60	Supply& stacking of HG ballast	CUM	400			400		
61	Supplying of stone boulders weighing not less than 35 kg each at specified bridge locations as per requirement.	Cum	100			100		
62	Deep screening of track ballast	M	1000			1000		
63	Renewal of concrete sleepers by concrete sleepers	No	50			50		
64	Engagement of welder	No	20			20		

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65	Lifting the newly inserted BG 60 Kg. / 52 Kg. turnouts/ trap switches to required level to provide a ballast cushion up to 225mm from existing level 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 etc., with contractor's labor, tools, with all lead and lifts etc., complete and as directed by the Engineer-In-Charge.	No	30			30		
66	Supply of oxygen gas for rail repair work	CUM	300			300		
67	Supply of DA gas for rail repair work	CUM	100			100		
68	Track lifting from 75 mm - 150 mm	M	5000			5000		
69	Inspection of track by Railway retired ADEN /DEN level officer	No	6			6		
70	Supplying and fixing HSFG bolts of any dia and any length with suitable nuts including DTI washers conforming to IRS-B1-2001 for bridges and steel structures with contractor labor, tools and plants and lead and lift etc. complete.	KG	100			100		
71	Metalizing of steel work of girders with sprayed aluminum after surface preparation by Sand/grit blasting, followed by one coat of primer. (IS:5666) & one coat of Zinc Chrome primer (IS:104) and two coats of aluminum paint (IS:2339) with all labor, T&P and material as a complete job duly conforming to all relevant specifications and process given under Clause 39 of IRS-B1-2001 Note: Nominal Thickness of aluminum coating shall be 150 microns. DFT of Zinc chrome primer shall be 25-30 microns and DFT of each coat of aluminum paint shall be 12-14 microns.	SQM	200			200		
72	Providing and fixing railing used in rows for footpath or anti-crash barrier railing with B class G.I. pipe 65/50 mm nominal dia including cost of M.S. angle and channels in vertical posts, welding / bolting, priming painting with one coat ready mix Zinc Chromate conforming to IS:104 with DFT of 25-30Microns, followed by one coat of Zinc Chrome red oxide conforming to IS:2074 with DFT of 25 Microns with all material, labor, T&P as a complete job.	KG	200			200		
73	Supplying and fixing M.S. Angles 65mmx 65mm x 8mm or any other size conforming to IS:2062 in the nosing of steps of stair cases of Foot Over Bridges including provision of 10mm dia, anchor bar 600mm c/c and fixing with main girder with M.S. flat, making anti-slip arrangements over the top of nosing as per approved scheme given by Engineer-In-Charge with all material, labor, T&P as a complete job.	KG	1000			1000		
74	Providing and fixing various size HTS holding down bolts conforming to IS:1364 in concrete column or in other structures with proper nuts, bolts, washers/plates, grouting of holes with all material, labor, T&P as a complete job. Note: Cement used in grouting will be paid separately under relevant item.	KG	200			200		

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75	Supplying, Fabricating and fixing access ladders, inspection platforms, Trolley refuges etc., on bridges with structural steel conforming to IS:2062 including welding / bolting, priming painting with one coat of ready mixed paint of Zinc Chromate (IS:104) with DFT of 25-30 microns followed by one coat of Zinc Chrome Red Oxide (IS:2074) with DFT of 25 microns with all material, labor, T&P as a complete job.	MT	1			1		
76	Surface preparation of steel work of bridge plate/composite girders by cleaning with scrappers and/or wire brushes to remove all rust and loose or perished paint to prepare perfectly clean & dry bare metal surface free from all dirt/foreign material & ready for initial coat of paint. Rate includes cost of labor, consumables, brushes, tools & plants, ladders, scaffoldings, jhoola, hanging scaffolding staging etc.	SQM	500			500		
77	Fixing Joggled Fish Plates with bolt / clamp (supplied by OPGC) 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 with 2 bolt Or 4 bolt or clamp.	Set	1000			1000		
78	Anti-corrosive painting of rail on running track of any sleeper density on web, foot etc. including liner contact area (excluding bottom of foot) and fishing plane as per requirement with two coats of thickness of 100 microns each by bituminous black paint conforms to IS-9862 of reputed make including painting of liners, ERCs and including surface preparation, i.e. cleaning with wire brush / sand paper as a complete job as per procedure prescribed in latest edition of IRPWW	M	1000			1000		
79	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, 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 and as directed by Engineer In-Charge. Note: (1) Drilling holes & rail cutting will be paid separately. (2) Transportation of materials to the site.	No	10			10		
80	Cleaning and greasing of free end and fixed end of steel girder Bridge bearing with Grease Graphite, Kerosene oil and other materials as per Para 222 of Indian Railway Bridge Manual 1998 with painting of Bearing as per requirement complete as directed by Engineer-In-Charge ( Span up to 18.3 mtr)	No	2			2		
81	Cleaning and greasing of free end and fixed end of steel girder Bridge bearing with Grease Graphite, Kerosene oil and other materials as per Para 222 of Indian Railway Bridge Manual 1998 with painting of Bearing as per requirement complete as directed by Engineer-In-Charge (Girder of clear span above 24.40m & up to 30.5m)	No	4			4		
<b>TOTAL VALUE IN INR (EXCLUDING GST)</b>								

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<b>GRAND TOTAL FOR 02 YEARS (EXCLUDING GST)</b>								
GST SHALL BE EXTRA AS APPLICABLE								