

Bill of Quantities

Name of Work: Supply & application of Loctite, Kent, Devcon or any other functionally similar product, a thread Locker Adhesive as an Anti-Vibration, Anti-theft & Anti- Sabotage measures for HSFG Bolts in Composite /OWG Girder Bridges in connection with DN Katni Grade Separator Project in Katni district, Madhya Pradesh.

Item No	Description of items	Unit	Rates (Rs.) inclusive of GST.	Qty in litre	Total amount (Rs.)including 18%GST
1	Supplying & Applying of Thread Locker Adhesive chemicals of Loctite, kent or any other functionally similar makes for Anti-Vibration, Anti-theft & Anti-Sabotage measures chemicals for HSFG Bolts as per BS III rev-7 or latest incl all ACS with contractor own labour, material tools & plants, all taxes, GST, loading, leading, unloading & lift etc. complete job for selected steel girder bridge locations in Katni Grade separator Project. The rate of this item is inclusive of supplying, applying of thread locker adhesive and testing on HSFG bolt etc as per RDSO guidelines and RDSO report no. C-226. The product should have already been used and tested in Railway Bridges.	Per Liter	₹ 43,887	1850 liter	₹ 8,11,90,950/-

Note:

(1) The contractor shall need to arrange and provide mechanical man lifter or any other suitable arrangement / means to the satisfaction of engineer in-charge for proper supervision and inspection of the work at their own cost. No additional payment shall be made on this account. In case of failure to arrange the required man lifters or other mechanical means for inspection/execution of work, a penalty of Rs. 7,000/- per span shall be imposed on the contractor.

(2) Stage payment

SN	% age payment allowed	Remarks
1	65% of payment as per the accepted rate of above item against supply of bonding agent with proper storage & safe custody arrangement by contractor at site and verified by Engineer-In-Charge on submission of indemnity bond.	a) Contractor shall supply the material in suitable packings as per SCC (Part-II) technical specification. b) Contractor shall provide copy of invoice and also provide Technical Data Sheet and Test reports of Manufacturer along with supply. c) Payment shall not be allowed for thread locker adhesive whose packing is air leak or damaged. d) Proper record (duly signed by contractor & Engineer/Employer's Engineer or their representatives) for supply of material shall be provided by the contractor.
2	25% of payment as per the accepted rate of above item	for application of bonding agent on HSFG for consumed quantity & verification.
3	10% of payment as per the accepted rate of above item	After application & completion of curing period of thread locker adhesive, the opening torque /Break loose torque value shall be ascertained by random testing of different size of bolts. Applied Thread locker adhesive must increase the opening/break loose torque value at least 200N-m more than the torque required for opening of Nut in bolts prior to application of thread locker adhesive. (as per Clause 13(a) of BS 111-R7 -2023+ & RDSO Report C-226) and successfully completion of work.