## Energy efficient clean and green technologies for steel rerolling mills (SRRMs)

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<th>No.</th>
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| 1   | Low end EE tech equipment | Shell in shell type recuperator for pulverized coal firing system  
                         Modified pulverized coal firing system  
                         Energy efficient pulverizer  
                         Installation of automation & control system (Proportional Integrated Derivative [PID] based for reheating furnace air-fuel ratio control system)  
                         High efficient U-tube cross flow type metallic recuperator (for furnace oil / gas fired reheating furnaces)  
                         Variable Voltage Variable Frequency (VVVF) drive  
                         Universal spindles & couplings  
                         Antifriction roller bearings  
                         Installation of Y-roller table in 3-Hi mill stands of rolling mills  
                         Installation of tilting table for 3-Hi mill stand  
                         Energy efficient drives for rolling mills | INR 3 – 15 lakhs | Savings in specific fuel consumption by 5 - 15% |
| 2   | Low end EE technology package | Replacement of existing furnace with new energy efficient furnace  
                         Conversion of fossil fuel to CBM based reheating furnace  
                         Conversion of fossil fuel to biomass based producer gas re-heating furnace  
                         Revamping / modernization of pulverized coal fired re-heating furnace  
                         Revamping existing furnace with energy efficient top fired re-heating furnace  
                         Revamping of rolling mill  
                         Revamping furnace with new insulation & refractory lining | INR 1 – 2 crores | Savings in specific fuel consumption by 20 - 35% |
| 3   | Low end EE technology | Revamping of mini scrap based rolling mill | INR upto 15 lakhs | Savings in specific energy consumption by 5 - 15% |
| 4   | High end technology | Direct rolling | INR 1.5- 3 crores | Savings in specific fuel consumption by 80 -100% |