



## R. Singh & Associates (P) Ltd

MAJOR PROJECTS –DOMESTIC					
S.No.	Project	Capacity	Major Facility	Technological Equipment Supplier	Consultant's Role
1	Steel Melt Shop	1,500,000 tpa billets (165 mm sq.)	160 t EAF, 160 t LF & 9/16 m 5 strand billet caster	SMS Siemag / Danieli	Consultancy & project engineering
2	Steel Melt Shop	400,000 tpa billets, booms & beam blanks	50 t EAF, 50 t LF, billet bloom caster	SMS Siemag	Consultancy & project engineering
3	Rail & Heavy Section Mill	500,000 tpa now upgraded to 800,000 tpa	2 Hi reversing breakdown mill, 2 Hi reversing shape forming mill, tandem universal rougher edging & universal finishing stand, 130 m long cooling bed and downstream finishing facilities, rail welding line to weld 4 x 120 m long rails to make 480 m single rail	SMS Equipment + SMS Tandem Mill (SMS Patent)	Basic Engineering (Owner's engineer)
4	Merchant Bar Mill	850,000 tpa : rebars (8 to 40 mm), equal angles (50 to 100 mm), channels (75x40 mm to 125x65 mm), flats (70 to 120 mm)	160 tph rehear furnace, 20 stand mill, cooling bed, bar handling system	Siemens VAI	Consultancy & project engineering
5	Seamless Tube Mill	300,000 tpa (5 to 14" dia pipes)	100t - rotary hearth furnace, piercer mill, mandrel mill / fine quality mill, extracting mill, finishing mill, cooling bed, finishing area	Danieli	Consultancy and Project Engineering
6	Steel Melt Shop	1,600,000 tpa slabs & blooms	2 x 100 t EAF, 3x 100 t LF, VD, slab caster & 6 strand bloom caster	BSE / Prowess / Metec / Danieli / Tata Corus	Consultancy & project engineering
7	Plate Mill	600,000 tpa plates (8 to 80 mm thick & 1500 to 2500 mm wide)	2 x 80 tph rehear furnace, 4Hi stand mill, vertical edge, laminar cooling, leveller, cooling bed, front end shear, dividing shear, piler	Mill stand second hand, remaining equipment from Indian manufacturers	Equipment design, consultancy & project engineering
8	Steel Melt Shop	0.5 MTPA (160 sq. billet, 200 Φ round, bloom 280 x 320, low / medium / high carbon steel, alloy steel & bearing grade steel)	70t EAF, 70t LHF, 70t VD, FES, 60 MVA transformer for EAF, 14 MVA transformer for LHF, FAFA system, charge mix – 30% HM, 60% DRI, 10% scrap, 12 x 21 m radius x 3 strand billet / bloom / round caster	EAF, LHF & FES - SMS Demag, India, VD - Siemens VAI & CCM - Concast India	Consultancy & Project management
9	Wire Rod & Bar Mill	0.5 MTPA (wire rod - 5.5 mm to 20 mm, rebar - 8 mm to 40 mm, plain round - 20-63 mm, angles - 50-75 mm, flat 50-100 mm)	105 tph RHF, 19 stand continuous rolling and 10 stand WRB at 105 m/s speed, 91 m long controlled cooling, coil handling with vertical compactor, TMT line with 40 m/s HSD line for cooling bed, bar handling area with automatic strapping machines	SMS-Meer, Itlay	Consultancy & project engineering
10	2 x 500 tpd DRI Plant	0.3 mtpa	Iron ore receipt, storage, crushing, screening, intermediate storage & feeding system  Coal receipt storage, crushing, screening, intermediate storage & feeding system  Finished material, screening, separation and storage system  De-dusting system	LURGI-OUTOKUMPU	Consultancy & project engineering
11	Oxygen Plant	400 tpd	Main air compressor, oxygen compressor, nitrogen compressor, cold box, molecular sieve, cryogenic pumps expansion turbine etc.  O <sub>2</sub> , N <sub>2</sub> & Ar gas & liquid storage tanks	United Gas – (USA second hand plant)	Consultancy and project engineering