

Railway Project Management in South-East Asia*



Synopsis:

Since 1987 Kawasaki Steel was successively undertaking integrated construction projects based on South-East Asian

▼ contract

▽ commencement of work

	1987	1988	1989	1990	1991	1992	1993	1994
1 Depot and Workshop improvement			30 months					

(3) Installation of double-track lines, repair and modification of existing lines, and construction of new lines, including the construction of new lines and the modification of existing lines.

work, i.e., ① railway tracks (double tracks), ② station buildings, ③ bridges, ④ signals and telecommunications, ⑤ electric cars (purchase of cars) and ⑥ overhead contact systems. In the example of the Indonesian National Railways, however, orders in package form were placed for each major unit of construction area work. Thus, the preferred form of order placing varies from

and telecommunications, except in general civil engineering and building construction. The number of engineers, subcontractors, and manufacturers competent in design, fabrication, and execution of work in these fields is small. It is also difficult to procure locally construction machinery and tools for railway work, as well as construction materials.

that of Japanese.

(4) Manpower Control

Although Japanese engineers are desirable in terms

smooth progress of the work, and inventory control and custody control for this purpose are indispensable. Furthermore, because theft and loss during

cost. Therefore, technical and quality control is conducted by a combination of local engineers and

take strict measures in providing security.

equipment group and a non-signal equipment group. Some of work allotted to it. It is necessary to be

The former group is composed of Siemens AG (Ger. general work schedule prepared jointly by all member

**4.4 Management of Construction Work
(Nonsignal Equipment)**

4.4.1 Outline of work

The work extends over the whole area shown in

rail joints.

(3) Substation Works

Expansion of existing substations and installation of new transformer equipment for signals.

(4) Catenary Works

Repair of existing catenary and installation of

order on a turnkey basis is placed for the substation and (4) Careful material distribution management.