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## **DIVISION 9 DAYWORK**

### **SECTION 9.1 DAYWORK**

#### **9.1.1 GENERAL**

##### **9.1.1.1 Description**

This work consists of certain Engineer approved operations not originally envisaged during design (or allowed for in the quantity schedule for Divisions 1 to 8 inclusive) but which become apparent during construction as being necessary for the satisfactory execution and completion of the project. The operations carried out under Day work may be of any kind whatsoever as directed or authorized by the Engineer, and may include additional drainage works, excavation, filling, stabilization, testing, restitution of line existing pavement, construction of overlays, structures or other works.

##### **9.1.1.2 Related Work Specified Elsewhere**

- (a) General Conditions of Contract : relevant Clauses
- (b) Payment of Monthly Certificates : Section 1.6
- (c) Environmental Safeguards : Section 1.17
- (d) Variation Procedures : Section 1.13
- (e) All sections of Divisions 2 to 8 inclusive of these Specifications

##### **9.1.1.3 Submittals**

- (a) The Contractor shall, before ordering the “special” (not available in the Basic Unit Price which listed in the Bid) materials, submit to the Engineer quotations for his approval, and subsequent to material ordering, shall furnish to the Engineer such receipts or other vouchers as may be necessary to verify the amounts paid.
- (b) The Contractor shall submit at the end of each working day a written record of the hours for labor and plant and the quantities of all materials used on a Day work basis and shall obtain the Engineer's signature on this record certifying his agreement with the items and quantities claimed.
- (c) The Contractor shall submit a Day work Claim, in accordance with Article 9.1.3.3 below.

#### **9.1.2 MATERIALS AND EQUIPMENT**

##### **9.1.2.1 Materials**

All materials used on a Day work basis shall meet the quality and performance provisions given in the relevant Sections of these Specifications. For materials not specified in detail elsewhere in these Specifications, material quality shall be as directed or approved by the Engineer.

9.1.2.2 Equipment

All equipment used on a Day work basis shall meet the provisions of the relevant Sections of these Specifications and shall be approved for use by the Engineer before work is commenced.

**9.1.3 EXECUTION OF DAYWORK**

9.1.3.1 Day work Authorization

- (a) Day work may be either requested in writing by the Contractor or ordered by the Engineer. In either case, the work shall not be commenced until the issue by the Engineer of a written Day work Authorization, and if necessary, a signed Variation.
- (b) For work to be executed for which Day work Unit Prices are already established in the priced Bill of Quantities, this authorization will describe the extent and mixture of the work required with attachments of drawings or revised Contract Documents to define the details of the work, and shall designate the method of determining the eventual value of the Works ordered.
- (c) For work to be executed for which new or additional Day work Unit Prices have to be agreed, this authorization shall also be cross referenced to, and be accompanied by, a Variation authorizing the agreed new or additional Unit Prices.
- (d) The Engineer shall sign and date the Day work Authorization as authorization for the Contractor to proceed with the work.

9.1.3.2 Performance of Work Executed on a Day work Basis

Day works operations shall be carried out in accordance with the provisions of the relevant Sections of these Specifications governing the placement and finishing of materials, the testing, quality and maintenance of the work and rectification of any unsatisfactory work. In the case of work required to be carried out on a Day work basis which is not specified elsewhere in the Specifications, the work shall be performed as directed and approved by the Engineer.

9.1.3.3 Day work Claims

- (a) Upon completion of each instruction for work executed on a Day work basis, the Contractor shall prepare an itemized payment claim for the labor, plant and material costs incurred by him in carrying out the Day work, and he shall include this Day work Claim, together with all supporting data, in his next application for interim payment by Monthly Certificate. The supporting data for the Day work Claim shall include all of the daily records approved by the Engineer plus any additional information requested by the Engineer such as:
  - (i) A copy of the Engineer's Day work Authorization.
  - (ii) A summary of the dates and times work was performed, and by whom.
  - (iii) A summary of hours worked, for all labor.
  - (iv) A summary of hours used for all Construction Plant.

- (v) Where applicable, invoices and receipts for any special materials, products or services used in the Works authorized by Variation.
- (b) The Engineer shall check and certify the Contractor's Day work Claim as part of the application for Monthly Certificate Payment in accordance with the relevant Clauses of the Conditions of Contract concerning certification and payment.

#### **9.1.4 MEASUREMENT AND PAYMENT**

##### **9.1.4.1 Measurement and Payment for Labor**

Measurement of labor for payment under Day work shall be made for the actual certified hours worked at the unit Prices for the various categories of labor entered in the Bill of Quantities, which price and payment shall constitute full compensation for the following costs :

- (a) The laborer's wages, taxes, bonuses, insurances, holiday pay, housing, welfare facilities, medical expenses, other entitled allowances and all other charges provided for in "Manpower Regulations in Indonesia: Guidance for Foreign Investors" (Labor Legislation Republic of Indonesia), published by the juridical Bureau, Department of Manpower.
- (b) The use and maintenance of hand tools.
- (c) The cost of transportation to and from the site of the work to be executed.
- (d) All associated administration and accounting costs, supervision excluding foreman, and all other incidentals and overheads necessary to mobilize the labor at the site of the Works.
- (e) Profit.

##### **9.1.4.2 Measurement and Payment for Construction Plant**

Measurement of plant for payment under Day work, whether hired or owned by the contractor, shall be made for the actual certified hours worked by the plant at the unit prices for the various categories of plant entered in the Bill of Quantities, which prices and payment shall constitute full compensation for the following costs:

- (a) Drivers, operators and attendants, which shall include all the costs indicated in Article 9.1.4.1 above for labor.
- (b) Fuel and consumable stores.
- (c) Overhauls, repairs and replacements.
- (d) Idling and traveling time on site.
- (e) Establishment charges, site and head office accounting costs and all other overheads.
- (f) Cost of haulage to and from site.
- (g) Profit.

9.1.4.3 Measurement for Materials

The quantity of Day work to be measured for payment shall be the quantities of materials actually incorporated in the Day work: as verified by suppliers invoices and the approved daily work records.

9.1.4.4 Payment for Materials

- (a) For the “special” (not available in the Basic Unit Price which listed in the Bid), materials used in Day work, payment shall be at the net price paid by the Contractor for the materials delivered to Site, as substantiated by suppliers invoices, to which price shall be added an amount equal to 15 percent of the sum thereof. Such payment shall be deemed full compensation for the provision of materials, including the following Costs:
  - (i) Procurement and delivery to site.
  - (ii) Receiving at site, unloading, checking, storage, testing, protection and general handling.
  - (iii) Wastage.
  - (iv) Administration and accounting charges and all other associated over-heads.
  - (v) Profit.
- (b) The Contractor shall also be compensated under Articles 9.1.4.1 and 9.1.4.2 above forth labor and plant used in constructing the material into the Works.
- (c) Payment of all materials incorporated into Day work, shall be from the overall budget established for Day works under Division 9 of the Bill of Quantities or, at the discretion of the Engineer, shall be from any other Pay Item in Divisions 2 to 8 inclusive for which there is surplus budget. In either case a signed Variation shall be required before payment for materials used in Day work can be certified.

Pay Item No.	Description	Unit of Measurement
9.1.1	Foreman	Hour
9.1.2	Labor	Hour
9.1.3	Skilled Labor	Hour
9.1.4	Dump Truck 3-4 M <sup>3</sup>	Hour
9.1.5	Flat bed Truck 3-4 Ton	Hour
9.1.6	Water Tank Truck 3000 – 4500 liter	Hour
9.1.7	Bulldozer 100 – 150 HP	Hour
9.1.8	Motor Grader Min 100 HP	Hour
9.1.9	Wheel Loader 1.0 – 1.6 M <sup>3</sup>	Hour

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9.1.10	Crawler Loader 75 – 100 HP	Hour
9.1.11	Excavator 80 – 140 HP	Hour
9.1.12	Crane on Wheels 10 – 15 Ton	Hour
9.1.13	Tandem Roller 6 – 9 Ton	Hour
9.1.14	Vibrator Roller 5 – 8 Ton	Hour
9.1.15	Hand Vibrator 1.5 – 3.0 HP	Hour
9.1.16	Pneumatic Tire Roller	Hour
9.1.17	Compressor 4000-6500 liter/min.	Hour
9.1.18	Concrete Mixer 0.3 – 0.6 M <sup>3</sup>	Hour
9.1.19	Water Pump 70 – 100 mm	Hour
9.1.20	Jack Hammer	Hour