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No. 32

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

SCIENCE AND TECHNOLOGY COMMISSION OF
SHANGHAI MUNICIPAL PEOPLE'S GOVERNMENT
PEOPLE'S REPUBLIC OF CHINA

**DETAILED DESIGN
OF
SHANGHAI PUDONG INTERNATIONAL
AIRPORT
FINAL REPORT**

**VOLUME III
TENDER DOCUMENT (3 OF 3)**

PART V. BILL OF QUANTITIES

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SEPTEMBER 1997

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PEOPLE'S REPUBLIC OF CHINA
DETAILS DESIGN OF
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**DETAIL DESIGN
OF
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FINAL REPORT**

VOLUME III TENDER DOCUMENT

GENERAL CONTENTS

[1 of 3]

PART I Prequalification Document/Invitation to Tender

PART II Instruction to Tenderers

PART II-1 Airside Civil Works, Fuel Supply System ,Fire Fighting and Rescue Facilities

PART II-2 Airfield Lighting System

PART II-3 Equipment Purchase

PART III Condition of Contract

PART III-1 Airside Civil Works,Fuel Supply System,Fire Fighting and Rescue Facilities

PART III-2 Airfield Lighting System

PART III-3 Equipment Purchase (Fire Fighting and Rescue Facilities)

[2 of 3]

PART IV Specification

PART IV-1 Airside Civil Works

Section 1 General Provision

Section 2 Special Provision

PART IV-2 Airfield Lighting System

Section 1 General Provision

Section 2 Special Provision

PART IV-3 Fuel Supply System

Section 1 General Provision

Section 2 Special Provision

PART IV-4 Fire Fighting and Rescue Facilities

Section 1 General Provision

Section 2 Special Provision

PART IV-5 Equipment Purchase (Fire Fighting and Rescue Facilities)

Section 1 General Provision

Section 2 Special Provision

[3 of 3]

PART V Bill of Quantities

PART V-1 Airside Civil Works

PART V-2 Airfield Lighting System

PART V-3 Fuel Supply System

PART V-4 Fire Fighting and Rescue Facilities

Note) The dotted portion is included in this book.



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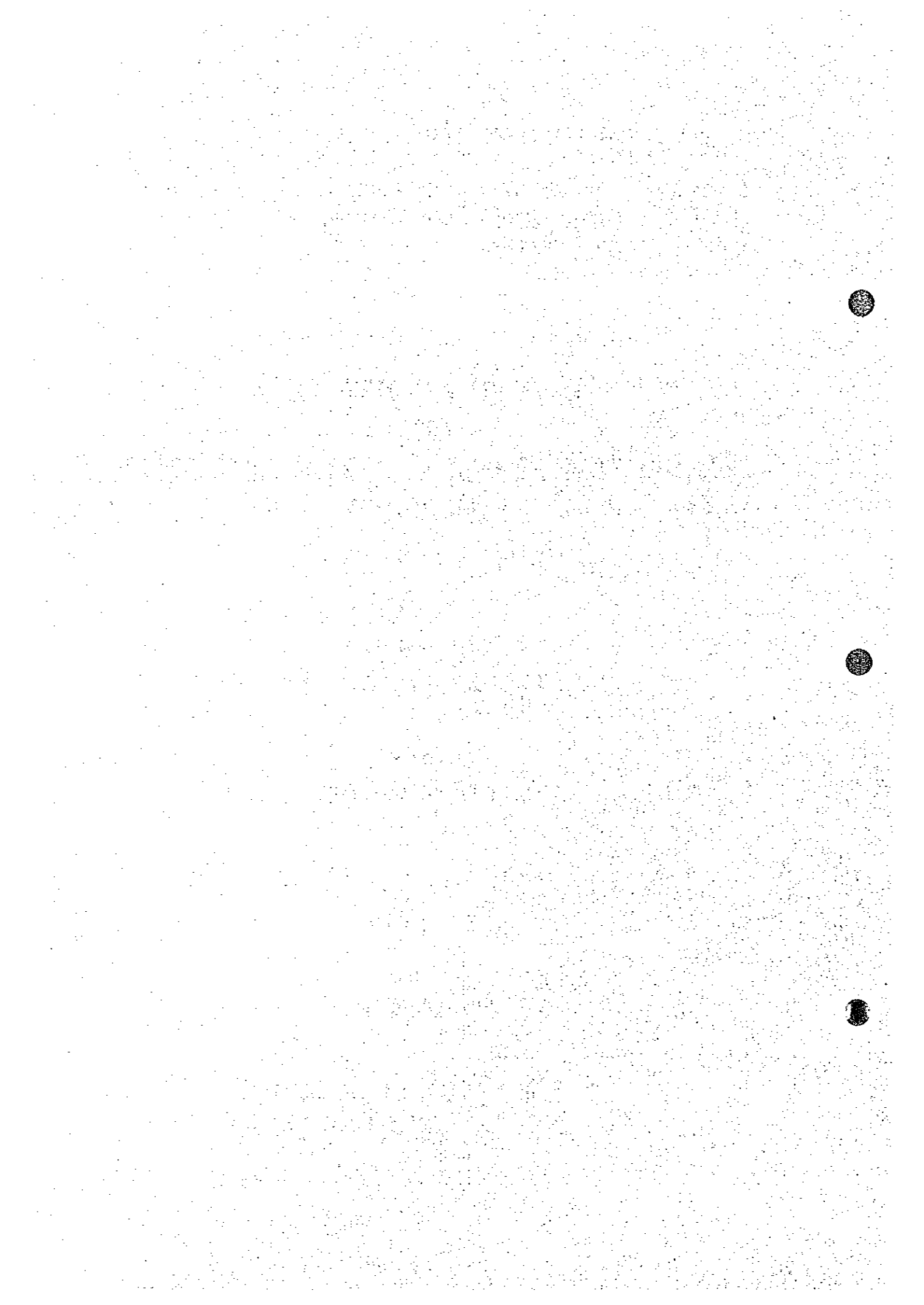
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BILL OF QUANTITIES**

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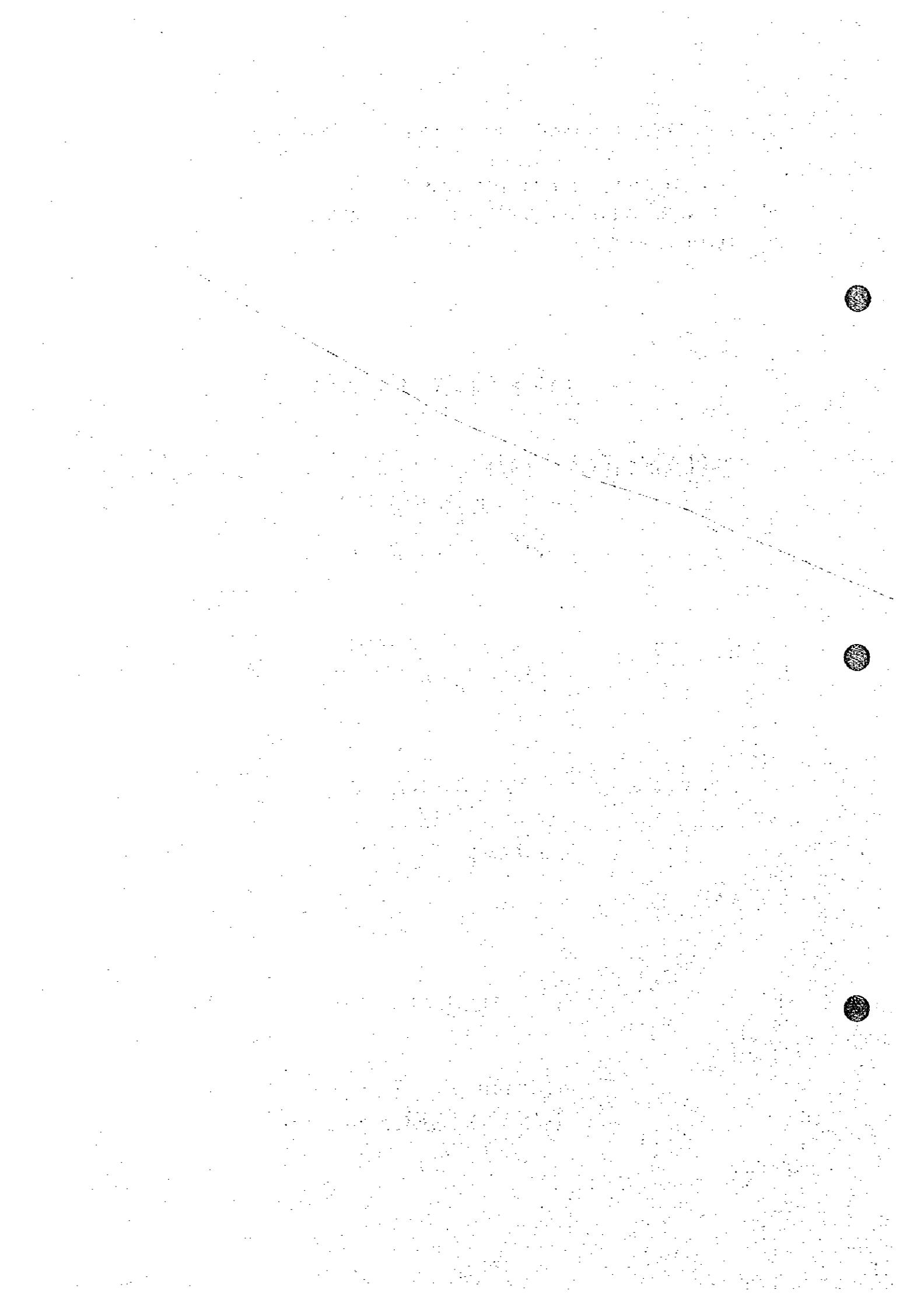
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**VOLUME III
TENDER DOCUMENT**

**PART V-1
BILL OF QUANTITIES
FOR
AIRSIDE CIVIL WORKS**

SEPTEMBER 1997

**NIPPON KOEI CO., LTD.
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PEOPLE'S REPUBLIC OF CHINA
SHANHAI MUNICIPAL PEOPLE'S GOVERNMENT

SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT
FINAL REPORT

TENDER DOCUMENT
PART V-1
BILL OF QUANTITIES
FOR
AIRSIDE CIVIL WORKS

TABLE OF CONTENTS

| Clause | Page |
|---|------|
| SECTION 1: PREAMBLE | |
| 1.1 Introduction..... | 1 |
| 1.2 General..... | 1 |
| SECTION 2: PRELIMINARY AND GENERAL ITEMS | |
| 2.1 Contractual Items..... | 3 |
| 2.2 Specification Items..... | 3 |
| SECTION 3: DIRECT WORKS | |
| 3.1 Method of Measurement..... | 5 |
| 3.2 Measured Works..... | 5 |

THE UNIVERSITY OF CHICAGO
DIVISION OF THE PHYSICAL SCIENCES
DEPARTMENT OF CHEMISTRY

RESEARCH REPORT
NO. 1000
BY
J. H. GOLDSTEIN
AND
R. F. STEIN

DEPARTMENT OF CHEMISTRY
UNIVERSITY OF CHICAGO
CHICAGO, ILLINOIS

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PREAMBLE TO BILL OF QUANTITIES

SECTION 1: PREAMBLE

1.1 INTRODUCTION

1.1.1 The Bill of Quantities (Schedule of Unit Rates, Prices and Quantities) comprises the following parts:

Preamble

Preliminary And General Items

Direct Works

Grand Summary

The Grand Total on the General Summary Sheet shall equal the amount of the estimated Contract Price set forth in the Form of Tender.

1.1.2 The Bill of Quantities shall be used by the Shanghai Municipal People's Government (the Employer) and or the Engineer for:

- a) bid evaluations purposes
- b) the basis of remeasurement and valuation of estimated quantities
- c) the basis of evaluation for any variations or additional Works ordered under the Conditions of Contract
- d) assistance in the calculation of progress payments
- e) computation of the Contract Price

1.2 GENERAL

1.2.1 The Bill of Quantities shall be read in conjunction with the Conditions of Contract, Specification, Contract Drawings and all other Contract Documents relevant thereto and the cost of complying with the requirements and obligations thereof or which may be reasonably inferred therefrom shall be deemed to be included in the rates and prices set out in the Bill of Quantities.

- 1.2.2 Descriptions shall identify the work covered by the respective items, but the exact nature and extent of the work shall be ascertained from the Specification, Drawings and Conditions of Contract, as the case may be.
- 1.2.3 The order of stating dimensions in descriptions shall be in the sequence of length, width and height (or depth) unless otherwise described.
- 1.2.4 Where work is shown, described, indicated in or reasonably inferred or implied from the Specification and or Drawings but not specifically itemized in the Bill of Quantities, then the cost of such work shall be deemed to be included in the rates for the items associated with the particular work. No additional items, other than those stated in the Bill of Quantities, will be used to measure such work without the written consent of the Engineer.
- 1.2.5 Where the Contractor does not insert a rate against an item (or items) in the Bill of Quantities, the cost of carrying out the work described in the item(s) will be deemed to be included elsewhere and no measurement of the item(s) will be made.
- 1.2.6 Unit rates and prices shall be expressed in Chinese Renminbi and Japanese Yen to a maximum of two decimal places.
- 1.2.7 Throughout the Bill of Quantities the following abbreviations shall apply:

| <u>Abbreviation</u> | <u>Full Meaning</u> |
|---------------------|---------------------|
| mm | millimetre |
| mm ² | square millimetre |
| m | metre |
| m ² | square metre |
| m ³ | cubic metre |
| ha | hectare |
| ea | each |
| No | number |
| kg | kilogramme |
| km | kilometre |
| t | tonne |
| ltr | litre |
| LS | Lump Sum |
| PS | Provisional Sum, |
| MM | Man Month |
| MD | Man Day |
| Rate | Unit Rate |

- 1.2.8 The Bill of Quantities identifies and represents the Works to be carried out as part of this project. Sections of works that can not be accurately measured are noted as Lump Sum. Additionally Provisional Sums have been included, which sums shall be used in whole or in part, or not at all, or the instructions of the Engineer.
- 1.2.9 The General Principles of Measurement and Principles of Measurement for each part of the Bill of Quantities apply equally to all parts of the Bill of Quantities when relevant and are not limited to the parts in which they are contained.
- 1.2.10 Where reference is made to the "descriptions" or "as described" the term "descriptions" or "as described" shall mean the descriptions of the item(s) contained in the Bill of Quantities, the Specification or Drawings.

SECTION 2: PRELIMINARY AND GENERAL ITEMS

2.1 CONTRACTUAL ITEMS

2.1.1 General

2.1.1.1 For the purpose of Interim Payment Certificates, the amount entered against Contractual items in the Preliminaries and General Items Section will be certified as stated following:

- (a) Performance Bond: the amount entered against this item will be certified in the Interim Payment Certificate following approval of the institution providing the security and receipt of the Performance Bond.
- (b) Insurances: the amounts entered against these items will be certified in the Interim Payment Certificate following approval of the policies in accordance with the Conditions of Contract. Originals of receipts must be produced as evidence of payment.
- (c) All other amounts entered against Preliminary and General Contractual items will be certified for payment in direct proportion to the accumulative value of certified Site construction Works.

2.2 SPECIFICATION ITEMS

2.2.1 General

2.2.1.1 For the purposes of Interim Payment Certificates, the amounts, entered against Specification Items in the Preliminaries and General Items Section will be certified as stated following:

- (a) Contractor's Site Establishment - on provision of the facilities and approval of the Engineer, 50% of the amount entered against this item will be certified for payment in the following Interim Payment Certificate. On completion of the Works, removal of the facilities and the making good of the area occupied thereby, all as specified and to the approval of the Engineer, 20% will be certified for payment in Final Payment Certificate. The remaining 30% will be certified for payment in equal monthly installments during the period for construction of the Works, providing that the facilities are maintained in accordance with the Contract and to the approval of the Engineer.
- (b) Construction Plant - on completion of mobilizing, erecting, testing and commissioning as specified of all plant and equipment and approval of the Engineer, 60% of the amount entered against this item will be certified for payment in the following Interim Payment Certificate. On completion of the demobilization of all plant and equipment and the making good of any area occupied thereby and approval of the Engineer, 40% of the amount will be certified for payment in the following Interim Payment Certificate.
- (c) General Site Requirement - on completion of the installations as specified and approval of the Engineer, 60% of the amount entered against this item will be certified for payment in the following Interim Payment Certificate. On completion of the Works removal of the installations and the making good of the area occupied thereby to the approval of the Engineer, 20% will be certified for payment in the next interim payment. The remaining 20% will be certified for payment in equal monthly installments during the period for construction of the Works, providing that the installations are maintained to the satisfaction of the Engineer.
- (d) Assistance to Engineer () - the quantities stated will be measured in accordance with Clause 56 of the Conditions of Contract and the calculated amounts certified.
- (e) Site Investigation () - where quantities are stated these will be measured in accordance with Clause 56 of the Conditions of Contract and the calculated amounts certified. Lump Sum amounts will be certified in direct proportion to the completion of that item.

- (f) Document Submission and Other Matters - the amount entered against these items will be certified in installments in proportion to the particular items completed.

SECTION 3: DIRECT WORKS

3.1 METHOD OF MEASUREMENT

- 3.1.1 The method of measurement and computations to be used in determination of quantities of material furnished and of work performed under the Contract will be those methods generally recognized as conforming to good engineering practices in China. All work completed under the Contract will be measured by the Engineer or his authorized representatives using metric-ton unit system of measurement.
- 3.1.2 Where appropriate, quantities have been rounded off to nearest integer (<0.5 rounded down, ≥0.5 rounded up). However, quantities of items measurement in hectares, tonnes or quantities of high value items have been expressed to one place of decimals.
- 3.1.3 When the application of 3.1.2 would cause an entire item to be eliminated, then such an item is enumerated stating the size or weight as appropriate.

3.2 MEASURED WORKS

- 3.2.1 Quantities included under the Measured Works sections of the Bill of Quantities are estimated quantities based on the Scope of Works set forth in the Contract Documents and shall be subject to remeasurement in accordance with the provisions of the Contract and valued at the unit rates included therein. There shall be no basis of claim or adjustment of the unit rates and prices in the event that the quantity of Work performed for any item shown in the Bill of Quantities, as finally measured in accordance with the provisions of the Contract, is different from that shown in the Bill of Quantities.
- 3.2.2 Unless otherwise stated, all items shall be deemed fully inclusive of all that is necessary to fulfill the liabilities and obligations arising out of the contract and shall include, but not be limited to, the following
- a) Labour, supervision and all associated costs
 - b) Materials, goods and all associated costs
 - c) Fitting, jointing and fixing materials and goods in position
 - d) Cutting to size and allowances for wastage of materials and goods
 - e) Provision of plant
 - f) Temporary works

- g) Maintenance and protection of finished work
- h) Establishment charges, overheads and profit

- 3.2.3 The Contract price shall be computed from the quantities of work entered in the Bill of Quantities and valued at the unit and lump sum prices tendered against the respective items in the Bill of Quantities hereto.
- 3.2.4 The Tenderer shall ensure that his tender prices are well balanced and that no section of the Bill of Quantities is heavily priced to cause lower prices in another section. The Employer reserves the right to require balancing of the Tender before acceptance.
- 3.2.5 Any difference between the cost of executing work of a similar description in different areas of the Site shall be allowed for in pricing the items concerned.
- 3.2.6 Except as otherwise provided in the Conditions of Contract, items included in the Preliminary and General items section shall not be subject to adjustment or remeasurement.
- 3.2.7 The CAAC 1-xxx numbers indicated in parenthesis within the "Description of Works" Column in the Bill of Quantities have been entered for the convenience of the Engineer in making cost estimations, and may be ignored by the Tenderer. The Tenderer shall compile all estimated prices on the basis of the Contract Documents.

PART-1 PRELIMINARY AND GENERAL ITEMS



Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|----------|---|---------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 1 | PRELIMINARY AND GENERAL ITEMS | | | | | | | |
| | Contractual Items | | | | | | | |
| 1 | Performance bond | Unit | 1 | | | | | |
| 2 | Insurance of the Works | Package | 1 | | | | | |
| 3 | Third party insurance | Package | 1 | | | | | |
| 4 | Other insurance (specify) | Package | 1 | | | | | |
| | Total of Contractual Items | | | | | | | |
| 2 | Specification Items | | | | | | | |
| 1 | Contractor's Site Establishment | | | | | | | |
| | a) Provide, maintain and remove on completion offices, yards, workshops, stores, lay-downs areas accommodation and camps as required, including all costs of services, maintenance security, ground rentals and the like. | Package | 1 | | | | | |
| 2 | Construction Plant | | | | | | | |
| | a) Provide, install, test and commission, maintain and remove on completion a concrete batching and mixing plant. | Set | 1 | | | | | |
| | b) Provide, install, test and commission, maintain and remove on completion an asphalt batching and mixing plant. | Set | 1 | | | | | |
| | c) Provide, install, test and commission, maintain and remove on completion a stone | | | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|----------|--|---------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| | crushing plant. Sub-total | Set | 1 | | | | | |
| 3 | Testing, Commissioning and Trials a) Where not included in the Bill of Quantities elsewhere, provide all specialist labour, plant, materials, equipment, tools and consumables for testing the Works as required by the Specification and as required by Clause 36 of the Conditions of Contract. | Package | 1 | | | | | |
| | b) Where not included in the Bill of Quantities elsewhere, provide all specialist labour, plant, equipment, tools and consumables for commissioning the Works as required by the Specification. | Package | 1 | | | | | |
| | c) Provide all labour, plant, materials, equipment, tools and consumables to undertake trials and prepare sample panels to verify the performance of construction equipment and to establish the standards of workmanship. | Package | 1 | | | | | |
| | Sub-total | | | | | | | |
| 4 | Samples a) Where not included in the Bill of Quantities elsewhere, allow for the cost of all samples | | | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|----------|---|---------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| | specified and required by Clause 36 of the Contract to be provided for the Engineer's approval | Package | 1 | | | | | |
| 5 | General Site Requirements | | | | | | | |
| | a) Allow for the additional costs arising from the provision, maintenance and removal of temporary access roads | Package | 1 | | | | | |
| | b) Provide, erect and remove on completion notice and sign boards. | Package | 1 | | | | | |
| | c) Provide, erect and remove on completion temporary fencing and gates as specified. | Package | 1 | | | | | |
| | d) Provide, erect and remove on completion temporary hoardings and gates as specified. | Package | 1 | | | | | |
| | e) Allow for all costs associated with the prevention of pollution, nuisance and construction noise. | Package | 1 | | | | | |
| | f) Allow for all costs associated with Security, Safety and Protection. | Package | 1 | | | | | |
| | Sub-total | | | | | | | |
| 6 | Site Investigation | | | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|----------|--|---------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| | a) Establish the coordinates system from existing fixed points and bench marks and undertake a topographical survey of the areas specified. | Package | 1 | | | | | |
| | b) Traverse survey | Package | 1 | | | | | |
| | c) Center line survey. Cross section survey Profile leveling | Package | 1 | | | | | |
| | d) Process and plot on A1 size drawings the survey results | Package | 1 | | | | | |
| | e) Establish from given data the on-Site location of boreholes and undertake the Site Investigation as specified. | Package | 1 | | | | | |
| | f) Mobilization including initial borehole set-up and Demobilization including final demount | Package | 1 | | | | | |
| | g) Boreholes including, setting out, demount, move and set up, drilling, sampling and in-situ testing including backfilling and reinstatement of the borehole working area | Package | 1 | | | | | |
| | h) Modified CBR test | set | | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|----------|---|---------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| | i) Test pits, 2.0 x 2.0 (depth) x 1.5 m | set | | | | | | |
| | j) Plate bearing tests | set | | | | | | |
| | k) Laboratory tests, including triaxial consolidation and triaxial tests, sieve analysis and specific gravity tests. | set | | | | | | |
| | l) Draft and Final Reports as specified | Package | 1 | | | | | |
| | Sub-total | | | | | | | |
| 7 | Document, Submission and Other Matters | | | | | | | |
| | a) Progress photographs as specified | Package | 1 | | | | | |
| | b) Operation and Maintenance manuals as specified | Package | 1 | | | | | |
| | c) As-built Drawings as specified | Package | 1 | | | | | |
| | d) Construction Standards as specified | Package | 1 | | | | | |
| | e) Where not included in the Bill of Quantities elsewhere the Contractor shall allow for the preparation and handover of Spare Parts and Special Tools as required by the Engineer and or the instructions of the Engineer. | Package | 1 | | | | | |
| | Sub-total | | | | | | | |
| | Total of Specification Items | | | | | | | |
| | Total of Preliminary General and Items | | | | | | | |



PART-2 DIRECT WORKS



Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|----------|--|----------------|-----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 1-1 | Earth Works | | | | | | | |
| | Direct Works | | | | | | | |
| 1 | Topsoil stripping (CAAC 1-010) | m ³ | 437,298 | | | | | |
| 2 | Leveling and subgrade formation(CAAC 1-073) | m ² | 2,050,239 | | | | | |
| 3 | Cut-Area compacting (relative density 90%) (CAAC 1-068) | m ² | 1,845,220 | | | | | |
| 4 | Excavation of soil including hauling to fill area by scrapers(S=0-500m3)(CAAC 1-054) | m ³ | 1,554,317 | | | | | |
| 5 | Excavation of soil including hauling to fill area by dump truck(S=500-1000m)(CAAC1-058) | m ³ | 71,000 | | | | | |
| 6 | Excavation of soil including hauling to fill area by dump truck(S=1000-5000m)(CAAC1-058) | m ³ | 795,655 | | | | | |
| 7 | Embankment (relative density 90% or less) (CAAC 1-065) | m ³ | 875,438 | | | | | |
| 8 | Embanking and compacting (relative density 95%)(CAAC 1-067) | m ³ | 795,655 | | | | | |
| | Total of 1-8 | | | | | | | |
| 9 | 1- Materials pumped up from Yangzi River | m ³ | 795,655 | | | | | |
| 2 | 2- Sludge dredging | m ³ | 120,893 | | | | | |
| 3 | 3- Slag bedding (T 80 cm) | m ³ | 253,390 | | | | | |
| 4 | 4- Debris bedding (T 80 cm) | m ³ | 1,278,648 | | | | | |
| 5 | 5- Middle coarse sand bedding (S4-2-14) | m ³ | 66,629 | | | | | |
| 6 | 6- Chip leveling (CAAC1-206) | m ³ | 80,479 | | | | | |
| 7 | 7- Ram dropping | m ³ | 1,654,942 | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|----------|---------------------------------------|----------------|-----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 10 | Sub-total Planting of Runway Strip | | | | | | | |
| 1 | Full(100%) sodding (CAAC1-400) | m ² | 91,230 | | | | | |
| 2 | 50% sodding | m ² | 90,336 | | | | | |
| 3 | Seeding | m ² | 1,655,314 | | | | | |
| | Sub-total | | | | | | | |
| | Total of Earth Works | | | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|----------|---|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 1-2 | Pavement Works | | | | | | | |
| 1 | Direct Works | | | | | | | |
| 1 | Runway | | | | | | | |
| 1 | Cement concrete 5.0Mpa (T46cm) (CAAC 1-214) | m ² | 55,800 | | | | | |
| 2 | Cement concrete 5.0Mpa (T 45cm) (CAAC 1-214) | m ² | 4,800 | | | | | |
| 3 | Cement concrete 5.0Mpa (T42cm) (CAAC 1-213) | m ² | 69,600 | | | | | |
| 4 | Cement concrete 5.0Mpa (T39cm) (CAAC 1-213) | m ² | 1,903 | | | | | |
| 5 | Cement concrete 5.0Mpa (T 37cm) (CAAC 1-213) | m ² | 22,703 | | | | | |
| 6 | Cement concrete 5.0Mpa (T35cm) (CAAC 1-214) | m ² | 3,400 | | | | | |
| 7 | Cement concrete 5.0Mpa (T32cm) (CAAC 1-213) | m ² | 16,675 | | | | | |
| 8 | Cement concrete 5.0Mpa (T42-37cm) (CAAC 1-213) | m ² | 4,075 | | | | | |
| 9 | Cement concrete 5.0Mpa (T42-35cm) (CAAC 1-213) | m ² | 1,700 | | | | | |
| 10 | Cement concrete 5.0Mpa (T42-32cm) (CAAC 1-213) | m ² | 33,350 | | | | | |
| 11 | Cement concrete 5.0Mpa (T46-37cm) (CAAC 1-213) | m ² | 25,300 | | | | | |
| 12 | Cement concrete 5.0Mpa (T46-39cm) (CAAC 1-213) | m ² | 1,500 | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|----------|--|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 13 | Cement concrete 5.0Mpa (T42-39cm) (CAAC 1-213) | m ² | 750 | | | | | |
| 14 | Lime flyash stabilized crushed stone (upper-subbase) (T 18cm) (CAAC 1-175) | m ² | 492,196 | | | | | |
| 15 | Lime flyash stabilized crushed stone (lower-subbase) (T 18cm) (CAAC 1-175) | m ² | 246,130 | | | | | |
| 16 | Asphalt coating on joint (T 2mm) (CAAC 1-224) | m ² | 21,936 | | | | | |
| 17 | Dummy joint cutting (W0.4cm, D8cm) (CAAC 1-228) | m | 48,311 | | | | | |
| 18 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 101,990 | | | | | |
| 19 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 101,990 | | | | | |
| 20 | Traction type finishing (CAAC 1-225) | m ² | 241,556 | | | | | |
| 21 | Grooving | m ² | 170,700 | | | | | |
| 22 | Curing (film) (CAAC1-236) | m ² | 241,556 | | | | | |
| | Sub-total | | | | | | | |
| 2 | Runway Shoulder | | | | | | | |
| 1 | Precast concrete block (CAAC1-215) | m ³ | 1,840 | | | | | |
| 2 | Cement concrete 5.0Mpa (T26cm) (CAAC 1-213) | m ² | 48 | | | | | |
| 3 | Cement concrete 4.5Mpa (T 16cm) (CAAC 1-209) | m ² | 9,742 | | | | | |
| 4 | Cement concrete 4.5Mpa (T 12cm) (CAAC 1-208) | m ² | 716 | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|----------|--|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 5 | Lime flyash stabilized crushed stone (upper-subbase) (T 18cm) (CAAC 1-175) | m ² | 64 | | | | | |
| 6 | Lime flyash stabilized crushed stone (lower-subbase) (T 18cm) (CAAC 1-175) | m ² | 64 | | | | | |
| 7 | Lime flyash stabilized crushed stone (upper-subbase) (T 16cm) (CAAC 1-175) | m ² | 14,016 | | | | | |
| 8 | Lime flyash stabilized crushed stone (lower-subbase) (T 16cm) (CAAC 1-175) | m ² | 13,772 | | | | | |
| 9 | Crushed stone for sub-base course (T 20cm) (CAAC 1-193.194) | m ² | 244 | | | | | |
| 10 | Asphalt coating on joint (T 2mm) (CAAC 1-224) | m ² | 648 | | | | | |
| 11 | Expansion joint board (T 2cm) (CAAC 1-218) | m ² | 164.5 | | | | | |
| 12 | Dummy joint cutting (W0.4cm, D8cm) (CAAC 1-230) | m | 10 | | | | | |
| 13 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 8,735 | | | | | |
| 14 | PUT joint sealing (W2cm) (CAAC 1-220) | m | 1,828 | | | | | |
| 15 | PUT joint sealing (W0.8cm) (CAAC 1-232) | m | 8,715 | | | | | |
| 16 | Traction type finishing (CAAC 1-225) | m ² | 10,506 | | | | | |
| 17 | Curing(sheet) (CAAC1-234) | m ² | 10,506 | | | | | |
| | Sub-total | | | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|----------|--|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 3 | A-Taxiway | | | | | | | |
| 1 | Cement concrete 5.0Mpa (T 45cm) (CAAC 1-214) | m ² | 11,600 | | | | | |
| 2 | Lime flyash stabilized crushed stone (upper-subbase) (T 18cm) (CAAC 1-175) | m ² | 235,592 | | | | | |
| 3 | Lime flyash stabilized crushed stone (lower-subbase) (T 18cm) (CAAC 1-175) | m ² | 117,796 | | | | | |
| 4 | Asphalt Coating on joint (T 2mm) (CAAC 1-224) | m ² | 11,600 | | | | | |
| 5 | Dummy joint cutting (W0.4cm, D8cm) (CAAC 1-228) | m | 23,200 | | | | | |
| 6 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 48,978 | | | | | |
| 7 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 48,978 | | | | | |
| 8 | Traction type finishing (CAAC 1-225) | m ² | 116,000 | | | | | |
| 9 | Curing(film) (CAAC1-236) | m ² | 116,000 | | | | | |
| | Sub-total | | | | | | | |
| 4 | A-Taxiway Shoulder | | | | | | | |
| 1 | Cement concrete 4.5Mpa (T 26cm) (CAAC 1-208) | m ² | 150 | | | | | |
| 2 | Cement concrete 4.5Mpa (T 12cm) (CAAC 1-208) | m ² | 25,740 | | | | | |
| 3 | Lime flyash stabilized crushed stone (upper-subbase) (T 18cm) (CAAC 1-175) | m ² | 160 | | | | | |
| 4 | Lime flyash stabilized crushed stone (lower-subbase) (T 18cm) (CAAC 1-175) | m ² | 160 | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|----------|--|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 5 | Lime flyash stabilized crushed stone (upper-subbase) (T 16cm) (CAAC 1-175) | m ² | 27,456 | | | | | |
| 6 | Lime flyash stabilized crushed stone (lower-subbase) (T 16cm) (CAAC 1-175) | m ² | 27,456 | | | | | |
| 7 | Asphalt coating on joint (T 2mm) (CAAC 1-224) | m ² | 8,245 | | | | | |
| 8 | Expansion joint board (T 2cm) (CAAC 1-218) | m ² | 308.9 | | | | | |
| 9 | Dummy joint cutting (W0.4cm, D8cm) (CAAC 1-230) | m | 30 | | | | | |
| 10 | Asphalt coating or joint (W0.8cm, D3cm) (CAAC 1-230) | m | 21,513 | | | | | |
| 11 | PUT joint sealing (W2cm) (CAAC 1-232) | m | 3,432 | | | | | |
| 12 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 21,450 | | | | | |
| 13 | Traction type finishing (CAAC 1-225) | m ² | 25,890 | | | | | |
| 14 | Curing(sheet) | m ² | 25,890 | | | | | |
| | Sub-total | | | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|----------|--|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 5 | B-Taxiway | | | | | | | |
| 1 | Cement concrete 5.0Mpa (T 45cm) (CAAC 1-214) | m ² | 116,290 | | | | | |
| 2 | Lime flyash stabilized crushed stone (upper-subbase) (T 18cm) (CAAC 1-175) | m ² | 236,720 | | | | | |
| 3 | Lime flyash stabilized crushed stone (lower-subbase) (T 18cm) (CAAC 1-175) | m ² | 118,360 | | | | | |
| 4 | Ashpalt coating on joint (T 2mm) (CAAC 1-224) | m ² | 11,629 | | | | | |
| 5 | Dummy joint cutting (W0.4cm, D8cm) (CAAC 1-228) | m | 23,258 | | | | | |
| 6 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 49,100 | | | | | |
| 7 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 49,100 | | | | | |
| 8 | Traction type finishing (CAAC 1-225) | m ² | 116,290 | | | | | |
| 9 | Curing(film)(CAAC1-236) | m ² | 116,290 | | | | | |
| | Sub-total | | | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|----------|--|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 6 | B-Taxiway Shoulder | | | | | | | |
| 1 | Precast concrete block (CAAC1-215) | m ³ | 25,580 | | | | | |
| 2 | Cement concrete 4.5Mpa (T 26cm) (CAAC 1-208) | m ² | 150 | | | | | |
| 3 | Cement concrete 4.5Mpa (T 12cm) (CAAC 1-208) | m ² | 29,327 | | | | | |
| 4 | Lime flyash stabilized crushed stone (upper-subbase) (T 18cm) (CAAC 1-175) | m ² | 160 | | | | | |
| 5 | Lime flyash stabilized crushed stone (lower-subbase) (T 18cm) (CAAC 1-175) | m ² | 160 | | | | | |
| 6 | Lime flyash stabilized crushed stone (upper-subbase) (T 16cm) (CAAC 1-175) | m ² | 34,021 | | | | | |
| 7 | Lime flyash stabilized crushed stone (lower-subbase) (T 16cm) (CAAC 1-175) | m ² | 31,293 | | | | | |
| 8 | Crushed stone for sub-base course (T 20cm) (CAAC 1-) | m ² | 2,728 | | | | | |
| 9 | Asphalt coating on joint (T 2mm) (CAAC 1-224) | m ² | 939,327 | | | | | |
| 10 | Expansion joint board (T 2cm) (CAAC 1-218) | m ² | 351.9 | | | | | |
| 11 | Dummy joint cutting (W0.4cm, D8cm) (CAAC 1-230) | m | 30 | | | | | |
| 12 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 24,502 | | | | | |
| 13 | PUT joint sealing (W2cm) (CAAC 1-232) | m | 3,910 | | | | | |
| 14 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 24,439 | | | | | |
| 15 | Traction type finishing (CAAC 1-225) | m ² | 29,477 | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|----------|---|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 16 | Curing(sheet) Sub-total | m ² | 29,327 | | | | | |
| 7 | C-Taxiway | | | | | | | |
| 1 | Cement concrete 5.0Mpa (T 45cm) (CAAC 1-214) | m ² | 9,964 | | | | | |
| 2 | Lime flyash stabilized crushed stone (upper-subbase) (T 18cm) (CAAC 1-175) | m ² | 20,578 | | | | | |
| 3 | Lime flyash stabilized crushed stone (lower-subbase) (T 18cm) (CAAC 1-175) | m ² | 10,289 | | | | | |
| 4 | Asphalt coating on joint (T 2mm) (CAAC 1-224) | m ² | 996 | | | | | |
| 5 | Dummy joint cutting (W0.4cm, D8cm) (CAAC 1-228) | m | 1,993 | | | | | |
| 6 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 4,207 | | | | | |
| 7 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 4,207 | | | | | |
| 8 | Traction type finishing (CAAC 1-225) | m ² | 9,964 | | | | | |
| 9 | Curing(film)(CAAC1-236) | m ² | 9,964 | | | | | |
| | Sub-total | | | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|----------|--|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 8 | C-Taxiway Shoulder | | | | | | | |
| 1 | Cement concrete 4.5Mpa (T 12cm) (CAAC 1-208) | m ² | 4,628 | | | | | |
| 2 | Lime flyash stabilized crushed stone (upper-subbase) (T 16cm) (CAAC 1-175) | m ² | 4,953 | | | | | |
| 3 | Lime flyash stabilized crushed stone (lower-subbase) (T 16cm) (CAAC 1-175) | m ² | 4,953 | | | | | |
| 4 | Asphalt coating on joint (T 2mm) (CAAC 1-224) | m ² | 1,481 | | | | | |
| 5 | Expansion joint board (T 2cm) (CAAC 1-218) | m ² | 55.5 | | | | | |
| 6 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 3,857 | | | | | |
| 7 | PUT joint sealing (W2cm) (CAAC 1-233) | m | 621 | | | | | |
| 8 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 3,857 | | | | | |
| 9 | Traction type finishing (CAAC 1-225) | m ² | 4,628 | | | | | |
| 10 | Curing(sheet) | m ² | 4,628 | | | | | |
| | Sub-total | | | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|-----------|--|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 9 | D-Taxiway | | | | | | | |
| 1 | Cement concrete 5.0Mpa (T 45cm) (CAAC 1-214) | m ² | 12,502 | | | | | |
| 2 | Lime flyash stabilized crushed stone (upper-subbase) (T 18cm) (CAAC 1-175) | m ² | 25,848 | | | | | |
| 3 | Lime flyash stabilized crushed stone (lower-subbase) (T 18cm) (CAAC 1-175) | m ² | 12,924 | | | | | |
| 4 | Asphalt coating or joint (T 2mm) (CAAC 1-224) | m | 1,250 | | | | | |
| 5 | Dummy joint cutting (W0.4cm, D8cm) (CAAC 1-228) | m | 2,500 | | | | | |
| 6 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 5,279 | | | | | |
| 7 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 5,279 | | | | | |
| 8 | Traction type finishing (CAAC 1-225) | m ² | 12,502 | | | | | |
| 9 | Curing(film) (CAAC1-236) | m ² | 12,502 | | | | | |
| | Sub-total | | | | | | | |
| 10 | D-Taxiway Shoulder | | | | | | | |
| 1 | Cement concrete 4.5Mpa (T 12cm) (CAAC 1-208) | m ² | 6,160 | | | | | |
| 2 | Lime flyash stabilized crushed stone (upper-subbase) (T 16cm) (CAAC 1-175) | m ² | 6,578 | | | | | |
| 3 | Lime flyash stabilized crushed stone (lower-subbase) (T 16cm) (CAAC 1-175) | m ² | 6,578 | | | | | |
| 4 | Asphalt coating or joint (T 2mm) | m ² | 6,578 | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|-----------|---|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| | (CAAC 1-224) | m ² | 1,970 | | | | | |
| 5 | Expansion joint board (T 2cm) (CAAC 1-218) | m ² | 73.9 | | | | | |
| 6 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 5,133 | | | | | |
| 7 | PUT joint sealing (W2cm) (CAAC 1-233) | m | 820 | | | | | |
| 8 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 5,133 | | | | | |
| 9 | Traction type finishing (CAAC 1-225) | m ² | 6,160 | | | | | |
| 10 | Curing(sheet) | m ² | 6,160 | | | | | |
| | Sub-total | | | | | | | |
| II | E-Taxiway | | | | | | | |
| 1 | Cement concrete 5.0Mpa (T 45cm) (CAAC 1-214) | m ² | 5,050 | | | | | |
| 2 | Lime flyash stabilized crushed stone (upper-subbase) (T 18cm) (CAAC 1-175) | m ² | 10,452 | | | | | |
| 3 | Lime flyash stabilized crushed stone (lower-subbase) (T 18cm) (CAAC 1-175) | m ² | 5,226 | | | | | |
| 4 | Asphalt coating or joint (T 2mm) (CAAC 1-224) | m ² | 505 | | | | | |
| 5 | Dummy joint cutting (W0.4cm, D8cm) (CAAC 1-228) | m | 1,010 | | | | | |
| 6 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 2,132 | | | | | |
| 7 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 2,132 | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|-----------|--|-------------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 8 | Traction type finishing (CAAC 1-225) | m ² | 5,050 | | | | | |
| 9 | Curing(film)(CAAC1-236) | m ² | 5,050 | | | | | |
| | Sub-total | | | | | | | |
| 12 | E-Taxiway Shoulder | | | | | | | |
| 1 | Cement concrete 4.5Mpa (T 12cm) (CAAC 1-208) | m ² | 2,470 | | | | | |
| 2 | Lime flyash stabilized crushed stone (upper-subbase) (T 16cm) (CAAC 1-175) | m ² | 2,642 | | | | | |
| 3 | Lime flyash stabilized crushed stone (lower-subbase) (T 16cm) (CAAC 1-175) | m ² | 2,642 | | | | | |
| 4 | Asphalt coating or joint (T 2mm) (CAAC 1-224) | m ² | 790 | | | | | |
| 5 | Expansion joint board (T 2cm) (CAAC 1-218) | m ² | 29.6 | | | | | |
| 6 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 2,058 | | | | | |
| 7 | PUT joint sealing (W2cm) (CAAC 1-233) | m | 329 | | | | | |
| 8 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 2,058 | | | | | |
| 9 | Traction type finishing (CAAC 1-225) | m ² | 2,470 | | | | | |
| 10 | Curing(sheet) (CAAC234) | m ² | 2,470 | | | | | |
| | Sub-total | | | | | | | |
| 13 | F-Taxiway | | | | | | | |
| 1 | Cement concrete 5.0Mpa (T 45cm) (CAAC 1-214) | 100m ² | 5,050 | | | | | |
| 2 | Cement concrete 5.0Mpa (T 37cm) (CAAC 1-213) | 100m ² | 13,091 | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|-----------|---|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 3 | Cement concret 5.0Mpa (T45-37cm) (CAAC 1-213) | m ² | 2,133 | | | | | |
| 4 | Lime flyash stabilized crushed stone (upper-subbase) (T 18cm) (CAAC 1-175) | m ² | 42,052 | | | | | |
| 5 | Lime flyash stabilized crushed stone (lower-subbase) (T 18cm) (CAAC 1-175) | m ² | 21,026 | | | | | |
| 6 | Asphalt coating or joint (T 2mm) (CAAC 1-224) | m ² | 1,775 | | | | | |
| 7 | Dummy joint cutting (W0.4cm, D8cm) (CAAC 1-228) | m | 4,055 | | | | | |
| 8 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 8,559 | | | | | |
| 9 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 8,559 | | | | | |
| 10 | Traction type finishing (CAAC 1-225) | m ² | 20,274 | | | | | |
| 11 | Curing(film) (CAAC1-236) Sub-total | m ² | 20,274 | | | | | |
| 14 | F-Taxiway Shoulder | | | | | | | |
| 1 | Cement concrete 4.5Mpa (T 12cm) (CAAC 1-208) | m ² | 8,478 | | | | | |
| 2 | Lime flyash stabilized crushed stone (upper-subbase) (T 16cm) (CAAC 1-175) | m ² | 9,050 | | | | | |
| 3 | Lime flyash stabilized crushed stone (lower-subbase) (T 16cm) (CAAC 1-175) | m ² | 9,050 | | | | | |
| 4 | Asphalt coating or joint (T 2mm) (CAAC 1-224) | m ² | 2,713 | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|-----------|---|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 5 | Expansion joint board (T 2cm) (CAAC 1-218) | m ² | 101.7 | | | | | |
| 6 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 7,065 | | | | | |
| 7 | PUT joint sealing (W2cm) (CAAC 1-233) | m | 1,130 | | | | | |
| 8 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 7,065 | | | | | |
| 9 | Traction type finishing (CAAC 1-225) | m ² | 8,478 | | | | | |
| 10 | Curing(sheet) (CAAC1-234) Sub-total | m ² | 8,478 | | | | | |
| 15 | G-Taxiway | | | | | | | |
| 1 | Cement concrete 5.0Mpa (T 45cm) (CAAC 1-214) | m ² | 5,050 | | | | | |
| 2 | Cement concrete 5.0Mpa (T 37cm) (CAAC 1-213) | m ² | 12,983 | | | | | |
| 3 | Cement concret 5.0Mpa (T45-37cm) (CAAC 1-213) | m ² | 2,133 | | | | | |
| 4 | Lime flyash stabilized crushed stone (upper-subbase) (T 18cm) (CAAC 1-175) | m ² | 41,764 | | | | | |
| 5 | Lime flyash stabilized crushed stone (lower-subbase) (T 18cm) (CAAC 1-175) | m ² | 20,882 | | | | | |
| 6 | Asphalt coating or joint (T 2mm) (CAAC 1-224) | m ² | 1,766 | | | | | |
| 7 | Dummy joint cutting (W0.4cm, D8cm) (CAAC 1-228) | m | 4,034 | | | | | |
| 8 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 8,515 | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|-----------|--|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 9 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 8,515 | | | | | |
| 10 | Traction type finishing (CAAC 1-225) | m ² | 20,166 | | | | | |
| 11 | Curing(film) (CAAC1-236) | m ² | 20,166 | | | | | |
| | Sub-total | | | | | | | |
| 16 | G-Taxiway Shoulder | | | | | | | |
| 1 | Cement concret 5.0Mpa (T26cm) (CAAC 1-213) | m ² | 79 | | | | | |
| 2 | Cement concrete 4.5Mpa (T 12cm) (CAAC 1-208) | m ² | 7,945 | | | | | |
| 3 | deleted | | | | | | | |
| 4 | deleted | | | | | | | |
| 5 | Lime flyash stabilized crushed stone (upper-subbase) (T 16cm) (CAAC 1-175) | m ² | 8,482 | | | | | |
| 6 | Lime flyash stabilized crushed stone (lower-subbase) (T 16cm) (CAAC 1-175) | m ² | 8,482 | | | | | |
| 7 | Lime flyash stabilized crushed stone (upper-subbase) (T 18cm) (CAAC 1-175) | m ² | 84 | | | | | |
| 8 | Lime flyash stabilized crushed stone (lower-subbase) (T 18cm) (CAAC 1-175) | m ² | 84 | | | | | |
| 9 | Asphalt coating on joint(T 2mm) (CAAC 1-224) | m ² | 2,547 | | | | | |
| 10 | Expansion joint board (T 2cm) (CAAC 1-218) | m ² | 95.3 | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|----------|--|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 11 | Dummy joint cutting (W0.4cm, D8cm) (CAAC 1-230) | m | 30 | | | | | |
| 12 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 6,654 | | | | | |
| 13 | PUT joint sealing (W2cm) (CAAC 1-233) | m | 1,059 | | | | | |
| 14 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 6,654 | | | | | |
| 15 | Traction type finishing (CAAC 1-225) | m ² | 8,024 | | | | | |
| 16 | Curing(sheet) (CAAC1-234) Sub-total | m ² | 8,024 | | | | | |
| 17 | H-Taxiway | | | | | | | |
| 1 | Cement concrete 5.0Mpa (T 45cm) (CAAC 1-214) | m ² | 12,804 | | | | | |
| 2 | Cement concrete 5.0Mpa (T 35cm) (CAAC 1-213) | m ² | 12,990 | | | | | |
| 3 | Cement concret 5.0Mpa (T45-35cm) (CAAC 1-213) | m ² | 2,133 | | | | | |
| 4 | Lime flyash stabilized crushed stone (upper-subbase) (T 18cm) (CAAC 1-175) | m ² | 57,794 | | | | | |
| 5 | Lime flyash stabilized crushed stone (lower-subbase) (T 18cm) (CAAC 1-175) | m ² | 28,897 | | | | | |
| 6 | Asphalt coating on joint (T 2mm) (CAAC 1-224) | m ² | 2,480 | | | | | |
| 7 | Dummy joint cutting (W0.4cm, D8cm) (CAAC 1-228) | m | 5,585 | | | | | |
| 8 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 11,791 | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|-----------|--|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 9 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 117,91 | | | | | |
| 10 | Traction type finishing (CAAC 1-225) | m ² | 279,27 | | | | | |
| 11 | Curing(film) (CAAC1-236) Sub-total | m ² | 279,27 | | | | | |
| 18 | H-Taxiway Shoulder | | | | | | | |
| 1 | Cement concrete 4.5Mpa (T 12cm) (CAAC 1-208) | m ² | 10,694 | | | | | |
| 2 | Lime flyash stabilized crushed stone (upper-subbase) (T 16cm) (CAAC 1-175) | m ² | 11,536 | | | | | |
| 3 | Lime flyash stabilized crushed stone (lower-subbase) (T 16cm) (CAAC 1-175) | m ² | 11,536 | | | | | |
| 4 | Asphalt coating on joint (T 2mm) (CAAC 1-224) | m ² | 3,422 | | | | | |
| 5 | Expansion joint board (T 2cm) (CAAC 1-218) | m ² | 128.3 | | | | | |
| 6 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 8,912 | | | | | |
| 7 | PUT joint sealing (W2cm) (CAAC 1-233) | m | 1,425 | | | | | |
| 8 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 8,912 | | | | | |
| 9 | Traction type finishing (CAAC 1-225) | m ² | 10,694 | | | | | |
| 10 | Curing(sheet) (CAAC1-234) Sub-total | m ² | 10,694 | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|------------------------------|--|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 19 J-Taxiway | | | | | | | | |
| 1 | Cement concrete 5.0Mpa (T 45cm) (CAAC 1-214) | m ² | 8,313 | | | | | |
| 2 | Cement concrete 5.0Mpa (T 35cm) (CAAC 1-213) | m ² | 119,79 | | | | | |
| 3 | Cement concret 5.0Mpa (T45-35cm) (CAAC 1-213) | m ² | 2,133 | | | | | |
| 4 | Lime flyash stabilized crushed stone (upper-subbase) (T 18cm) (CAAC 1-175) | m ² | 46,684 | | | | | |
| 5 | Lime flyash stabilized crushed stone (lower-subbase) (T 18cm) (CAAC 1-175) | m ² | 23,342 | | | | | |
| 6 | Asphalt coating on joint (T 2 mm) (CAAC 1-224) | m ² | 1,953 | | | | | |
| 7 | Dummy joint cutting (W0.4cm, D8cm) (CAAC 1-228) | m | 4,485 | | | | | |
| 8 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 9,468 | | | | | |
| 9 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 9,468 | | | | | |
| 10 | Traction type finishing (CAAC 1-225) | m ² | 22,425 | | | | | |
| 11 | Curing(film)(CAAC1-236) Sub-total | m ² | 22,425 | | | | | |
| 20 J-Taxiway Shoulder | | | | | | | | |
| 1 | Cement concrete 4.5Mpa (T 12cm) (CAAC 1-208) | m ² | 8,666 | | | | | |
| 2 | Lime flyash stabilized crushed stone | | | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|----------|--|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 3 | (upper-subbase) (T 16cm) (CAAC 1-175) | m ² | 9,374 | | | | | |
| | Lime flyash stabilized crushed stone (lower-subbase) (T 16cm) (CAAC 1-175) | m ² | 9,374 | | | | | |
| 4 | Asphalt coating on joint (T 2mm) (CAAC 1-224) | m ² | 2,773 | | | | | |
| 5 | Expansion joint board (T 2cm) (CAAC 1-218) | m ² | 104.0 | | | | | |
| 7 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 7,222 | | | | | |
| 8 | PUT joint sealing (W2cm) (CAAC 1-233) | m | 1,155 | | | | | |
| 9 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 7,222 | | | | | |
| 10 | Traction type finishing (CAAC 1-225) | m ² | 8,666 | | | | | |
| 11 | Curing(sack) | m ² | 8,666 | | | | | |
| | Sub-total | | | | | | | |
| 21 | K-Taxiway | | | | | | | |
| 1 | Cement concrete 5.0Mpa (T 45cm) (CAAC 1-214) | m ² | 8,313 | | | | | |
| 2 | Cement concrete 5.0Mpa (T 37cm) (CAAC 1-213) | m ² | 12,983 | | | | | |
| 3 | Cement concret 5.0Mpa (T45-37cm) (CAAC 1-213) | m ² | 2,133 | | | | | |
| 4 | Lime flyash stabilized crushed stone (upper-subbase) (T 18cm) (CAAC 1-175) | m ² | 48,568 | | | | | |
| 5 | Lime flyash stabilized crushed stone (lower-subbase) (T 18cm) (CAAC 1-175) | m ² | 24,284 | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|-----------|---|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 6 | Asphalt coating on joint (T 2mm) (CAAC 1-224) | m ² | 2,093 | | | | | |
| 7 | Dummy joint cutting (W0.4cm, D8cm) (CAAC 1-228) | m | 4,686 | | | | | |
| 8 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 9,892 | | | | | |
| 9 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 9,892 | | | | | |
| 10 | Traction type finishing (CAAC 1-225) | m ² | 23,429 | | | | | |
| 11 | Curing(film)(CAAC1-236) Sub-total | m ² | 23,429 | | | | | |
| 22 | K-Taxiway Shoulder | | | | | | | |
| 1 | Cement concrete 4.5Mpa (T 12cm) (CAAC 1-208) | m ² | 9,659 | | | | | |
| 2 | Lime flyash stabilized crushed stone (upper-subbase) (T 16cm) (CAAC 1-175) | m ² | 10,434 | | | | | |
| 3 | Lime flyash stabilized crushed stone (lower-subbase) (T 16cm) (CAAC 1-175) | m ² | 10,434 | | | | | |
| 4 | Asphalt coating on joint (T 2mm) (CAAC 1-224) | m ² | 3,091 | | | | | |
| 5 | Expansion joint board (T 2cm) (CAAC 1-218) | m ² | 115.9 | | | | | |
| 6 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 8,049 | | | | | |
| 7 | PUT joint sealing (W2cm) (CAAC 1-233) | m | 1,288 | | | | | |
| 8 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 8,049 | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|-----------|---|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 9 | Traction type finishing (CAAC 1-225) | m ² | 9,659 | | | | | |
| 10 | Curing(sheet) (CAAC1-234) Sub-total | m ² | 9,659 | | | | | |
| 23 | L-Taxiway | | | | | | | |
| 1 | Cement concrete 5.0Mpa (T 45cm) (CAAC 1-214) | m ² | 8,024 | | | | | |
| 2 | Cement concrete 5.0Mpa (T 37cm) (CAAC 1-213) | m ² | 13,091 | | | | | |
| 3 | Cement concret 5.0Mpa (T45-37cm) (CAAC 1-213) | m ² | 2,133 | | | | | |
| 4 | Lime flyash stabilized crushed stone (upper-subbase) (T 18cm) (CAAC 1-175) | m ² | 48,120 | | | | | |
| 5 | Lime flyash stabilized crushed stone (lower-subbase) (T 18cm) (CAAC 1-175) | m ² | 24,060 | | | | | |
| 6 | Asphalt coating on joint (T 2mm) (CAAC 1-224) | m ² | 2,073 | | | | | |
| 7 | Dummy joint cutting (W0.4cm, D8cm) (CAAC 1-228) | m | 4,650 | | | | | |
| 8 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 9,816 | | | | | |
| 9 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 9,816 | | | | | |
| 10 | Traction type finishing (CAAC 1-225) | m ² | 23,248 | | | | | |
| 11 | Curing(film) (CAAC1-236) Sub-total | m ² | 23,248 | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|-----------|--|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 24 | L-Taxiway Shoulder | | | | | | | |
| 1 | Cement concrete 4.5Mpa (T 12cm) (CAAC 1-208) | m ² | 9,469 | | | | | |
| 2 | Lime flyash stabilized crushed stone (upper-subbase) (T 16cm) (CAAC 1-175) | m ² | 10,210 | | | | | |
| 3 | Lime flyash stabilized crushed stone (lower-subbase) (T 16cm) (CAAC 1-175) | m ² | 10,210 | | | | | |
| 4 | Asphalt coating on joint (T 2mm) (CAAC 1-224) | m ² | 3,030 | | | | | |
| 5 | Expansion joint board (T 2cm) (CAAC 1-218) | m ² | 113.6 | | | | | |
| 6 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 7,891 | | | | | |
| 7 | PUT joint sealing (W2cm) (CAAC 1-233) | m | 1,262 | | | | | |
| 8 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 7,891 | | | | | |
| 9 | Traction type finishing (CAAC 1-225) | m ² | 9,469 | | | | | |
| 10 | Curing(sheet) (CAAC1-234) | m ² | 9,469 | | | | | |
| | Sub-total | | | | | | | |
| 25 | L-1 Taxiway | | | | | | | |
| 1 | Cement concrete 5.0Mpa (T 45cm) (CAAC 1-214) | m ² | 8,024 | | | | | |
| 2 | Lime flyash stabilized crushed stone (upper-subbase) (T 18cm) (CAAC 1-175) | m ² | 16,520 | | | | | |
| 3 | Lime flyash stabilized crushed stone (lower-subbase) (T 18cm) (CAAC 1-175) | m ² | 8,260 | | | | | |
| 4 | Asphalt coating on joint (T 2mm) | | | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|----------|---|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| | (CAAC 1-224) | m ² | 802 | | | | | |
| 5 | Dummy joint cutting (W0.4cm, D8cm) (CAAC 1-228) | m | 1,605 | | | | | |
| 6 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 3,388 | | | | | |
| 7 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 3,388 | | | | | |
| 8 | Traction type finishing (CAAC 1-225) | m ² | 8,024 | | | | | |
| 9 | Curing(film) (CAAC1-236) | m ² | 8,024 | | | | | |
| | Sub-total | | | | | | | |
| 26 | L-1 Taxiway Shoulder | | | | | | | |
| 1 | Cement concrete 4.5Mpa (T 12cm) (CAAC 1-208) | m ² | 3,461 | | | | | |
| 2 | Lime flyash stabilized crushed stone (upper-subbase) (T 16cm) (CAAC 1-175) | m ² | 3,802 | | | | | |
| 3 | Lime flyash stabilized crushed stone (lower-subbase) (T 16cm) (CAAC 1-175) | m ² | 3,802 | | | | | |
| 4 | Asphalt coating on joint (T 2mm) (CAAC 1-224) | m ² | 1,108 | | | | | |
| 5 | Expansion joint board (T 2cm) (CAAC 1-218) | m ² | 41.5 | | | | | |
| 6 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 2,884 | | | | | |
| 7 | PUT joint sealing (W2cm) (CAAC 1-233) | m | 461 | | | | | |
| 8 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 2,884 | | | | | |
| 9 | Traction type finishing (CAAC 1-225) | m ² | 3,461 | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|----------|---|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 10 | Curing(sheet) (CAAC1-234) Sub-total | m ² | 3,461 | | | | | |
| 27 | M-Taxiway | | | | | | | |
| 1 | Cement concrete 5.0Mpa (T 45cm) (CAAC 1-214) | m ² | 8,239 | | | | | |
| 2 | Lime flyash stabilized crushed stone (upper-subbase) (T 18cm) (CAAC 1-175) | m ² | 17,006 | | | | | |
| 3 | Lime flyash stabilized crushed stone (lower-subbase) (T 18cm) (CAAC 1-175) | m ² | 8,503 | | | | | |
| 4 | Asphalt coating on joint (T 2mm) (CAAC 1-224) | m ² | 824 | | | | | |
| 5 | Dummy joint cutting (W0.4cm, D8cm) (CAAC 1-228) | m | 1,648 | | | | | |
| 6 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 3,479 | | | | | |
| 7 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 3,479 | | | | | |
| 8 | Traction type finishing (CAAC 1-225) | m ² | 8,239 | | | | | |
| 9 | Curing(film) (CAAC1-236) Sub-total | m ² | 8,239 | | | | | |
| 28 | M-Taxiway Shoulder | | | | | | | |
| 1 | Cement concrete 4.5Mpa (T 12cm) (CAAC 1-208) | m ² | 3,461 | | | | | |
| 2 | Lime flyash stabilized crushed stone (upper-subbase) (T 16cm) (CAAC 1-175) | m ² | 3,802 | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|-----------|--|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 3 | Lime flyash stabilized crushed stone (lower-subbase) (T 16cm) (CAAC 1-175) | m ² | 3,802 | | | | | |
| 4 | Asphalt coating on joint (T 2mm) (CAAC 1-224) | m ² | 1,108 | | | | | |
| 5 | Expansion joint board (T 2cm) (CAAC 1-218) | m ² | 41.5 | | | | | |
| 6 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 2,884 | | | | | |
| 7 | PUT joint sealing (W2cm) (CAAC 1-233) | m | 461 | | | | | |
| 8 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 2,884 | | | | | |
| 9 | Traction type finishing (CAAC 1-225) | m ² | 3,461 | | | | | |
| 10 | Curing(sheet) (CAAC1-234) | m ² | 3,461 | | | | | |
| | Sub-total | | | | | | | |
| 29 | M-1 Taxiway | | | | | | | |
| 1 | Cement concrete 5.0Mpa (T 45cm) (CAAC 1-214) | m ² | 11,742 | | | | | |
| 2 | Lime flyash stabilized crushed stone (upper-subbase) (T 18cm) (CAAC 1-175) | m ² | 24,208 | | | | | |
| 3 | Lime flyash stabilized crushed stone (lower-subbase) (T 18cm) (CAAC 1-175) | m ² | 12,104 | | | | | |
| 4 | Asphalt coating on joint (T 2mm) (CAAC 1-224) | m ² | 1,174 | | | | | |
| 5 | Dummy joint cutting (W0.4cm, D8cm) (CAAC 1-228) | m | 2,348 | | | | | |
| 6 | Dummy joint cutting (W0.8cm, D3cm) | m | | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|-----------|--|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| | (CAAC 1-230) | | | | | | | |
| 8 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 4,958 | | | | | |
| 9 | Traction type finishing (CAAC 1-225) | m ² | 4,958 | | | | | |
| 10 | Curing(film) (CAAC1-236) | m ² | 11,742 | | | | | |
| | Sub-total | | | | | | | |
| 30 | M-1 Taxiway Shoulder | | | | | | | |
| 1 | Cement concrete 4.5Mpa (T 12cm) (CAAC 1-208) | m ² | 3,764 | | | | | |
| 2 | Lime flyash stabilized crushed stone (upper-subbase) (T 16cm) (CAAC 1-175) | m ² | 4,105 | | | | | |
| 3 | Lime flyash stabilized crushed stone (lower-subbase) (T 16cm) (CAAC 1-175) | m ² | 4,105 | | | | | |
| 4 | Asphalt coating on joint (T 2mm) (CAAC 1-224) | m ² | 1,205 | | | | | |
| 5 | Expansion joint board (T 2cm) (CAAC 1-218) | m ² | 45.2 | | | | | |
| 6 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 3,137 | | | | | |
| 7 | PUT joint sealing (W2cm) (CAAC 1-233) | m | 461 | | | | | |
| 8 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 3,137 | | | | | |
| 9 | Traction type finishing (CAAC 1-225) | m ² | 3,764 | | | | | |
| 10 | Curing(sheet) (CAAC1-234) | m ² | 3,764 | | | | | |
| | Sub-total | | | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|-----------|--|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 31 | N-Taxiway | | | | | | | |
| 1 | Cement concrete 5.0Mpa (T 45cm) (CAAC 1-214) | m ² | 12,502 | | | | | |
| 2 | Lime flyash stabilized crushed stone (upper-subbase) (T 18cm) (CAAC 1-175) | m ² | 25,848 | | | | | |
| 3 | Lime flyash stabilized crushed stone (lower-subbase) (T 18cm) (CAAC 1-175) | m ² | 12,924 | | | | | |
| 4 | Asphalt coating on joint (T 2mm) (CAAC 1-224) | m ² | 1,250 | | | | | |
| 5 | Dummy joint cutting (W0.4cm, D8cm) (CAAC 1-228) | m | 2,500 | | | | | |
| 6 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 5,279 | | | | | |
| 7 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 5,279 | | | | | |
| 8 | Traction type finishing (CAAC 1-225) | m ² | 12,502 | | | | | |
| 9 | Curing(film) (CAAC1-236) | m ² | 12,502 | | | | | |
| | Sub-total | | | | | | | |
| 32 | N-Taxiway Shoulder | | | | | | | |
| 1 | Cement concrete 4.5Mpa (T 12cm) (CAAC 1-208) | m ² | 6,160 | | | | | |
| 2 | Lime flyash stabilized crushed stone (upper-subbase) (T 16cm) (CAAC 1-175) | m ² | 6,578 | | | | | |
| 3 | Lime flyash stabilized crushed stone (lower-subbase) (T 16cm) (CAAC 1-175) | m ² | 6,578 | | | | | |
| 4 | Asphalt coating on joint (T 2mm) | m ² | 6,578 | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|-----------|---|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| | (CAAC 1-224) | m ² | 1,971 | | | | | |
| 5 | Expansion joint board (T 2cm) (CAAC 1-218) | m ² | 73.9 | | | | | |
| 6 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 5,133 | | | | | |
| 7 | PUT joint sealing (W2cm) (CAAC 1-233) | m | 821 | | | | | |
| 8 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 5,133 | | | | | |
| 9 | Traction type finishing (CAAC 1-225) | m ² | 6,160 | | | | | |
| 10 | Curing(sheet) (CAAC1-234) Sub-total | m ² | 6,160 | | | | | |
| 33 | P-Taxiway | | | | | | | |
| 1 | Cement concrete 5.0Mpa (T 45cm) (CAAC 1-214) | m ² | 10,992 | | | | | |
| 2 | Lime flyash stabilized crushed stone (upper-subbase) (T 18cm) (CAAC 1-175) | m ² | 22,722 | | | | | |
| 3 | Lime flyash stabilized crushed stone (lower-subbase) (T 18cm) (CAAC 1-175) | m ² | 11,361 | | | | | |
| 4 | Asphalt coating on joint (T 2mm) (CAAC 1-224) | m ² | 1,099 | | | | | |
| 5 | Dummy joint cutting (W0.4cm, D8cm) (CAAC 1-228) | m | 2,198 | | | | | |
| 6 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 4,641 | | | | | |
| 7 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 4,641 | | | | | |
| 8 | Traction type finishing (CAAC 1-225) | m ² | 10,992 | | | | | |
| 9 | Curing(film) (CAAC1-236) | m ² | 10,992 | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|-----------|--|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| | Sub-total | | | | | | | |
| 34 | P-Taxiway Shoulder | | | | | | | |
| 1 | Cement concrete 4.5Mpa (T 12cm) (CAAC 1-208) | m ² | 4,668 | | | | | |
| 2 | Cement concrete 5.0Mpa (T 26cm) (CAAC 1-214) | m ² | 109 | | | | | |
| 3 | Lime flyash stabilized crushed stone (upper-subbase) (T 18cm) (CAAC 1-175) | m ² | 116 | | | | | |
| 4 | Lime flyash stabilized crushed stone (lower-subbase) (T 18cm) (CAAC 1-175) | m ² | 116 | | | | | |
| 5 | Lime flyash stabilized crushed stone (upper-subbase) (T 16cm) (CAAC 1-175) | m ² | 4,981 | | | | | |
| 6 | Lime flyash stabilized crushed stone (lower-subbase) (T 16cm) (CAAC 1-175) | m ² | 4,981 | | | | | |
| 7 | Asphalt coating on joint (T 2mm) (CAAC 1-224) | m ² | 1,500 | | | | | |
| 8 | Expansion joint board (T 2cm) (CAAC 1-218) | m ² | 56.0 | | | | | |
| 9 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 3,936 | | | | | |
| 10 | PUT joint sealing (W2cm) (CAAC 1-233) | m | 622 | | | | | |
| 11 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 3,890 | | | | | |
| 12 | Traction type finishing (CAAC 1-225) | m ² | 4,777 | | | | | |
| 13 | Curing(sheet) (CAAC1-234) | m ² | 4,777 | | | | | |
| | Sub-total | | | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|----------|---|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 35 | Loading Apron | | | | | | | |
| 1 | Cement concrete 5.0Mpa (T45cm) (CAAC 1-214) | m ² | 322,817 | | | | | |
| 2 | Cement concrete 5.0Mpa (T39cm) (CAAC 1-213) | m ² | 76,614 | | | | | |
| 3 | Cement concrete 5.0Mpa (T32cm) (CAAC 1-213) | m ² | 46,875 | | | | | |
| 4 | Cement concrete 5.0Mpa (T45-32cm) (CAAC 1-213) | m ² | 11,825 | | | | | |
| 5 | Cement concrete 5.0Mpa (T39-32cm) (CAAC 1-213) | m ² | 3,800 | | | | | |
| 6 | Lime flyash stabilized crushed stone (upper-subbase) (T 18cm) (CAAC 1-175) | m ² | 930,142 | | | | | |
| 7 | Lime flyash stabilized crushed stone (lower-subbase) (T 18cm) (CAAC 1-175) | m ² | 465,017 | | | | | |
| 8 | Asphalt coating on joint (T 2mm) (CAAC 1-224) | m ² | 43,698 | | | | | |
| 9 | Dummy joint cutting (W0.4cm, D8cm) (CAAC 1-228) | m | 92,386 | | | | | |
| 10 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 195,037 | | | | | |
| 11 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 195,037 | | | | | |
| 12 | Traction type finishing (CAAC 1-225) | m ² | 461,931 | | | | | |
| 13 | Curing(film) (CAAC1-236) Sub-total | m ² | 461,931 | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|-----------|--|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 36 | Cargo Apron | | | | | | | |
| 1 | Cement concrete 5.0Mpa (T45cm) (CAAC 1-214) | m ² | 30,168 | | | | | |
| 2 | Cement concrete 5.0Mpa (T32cm) (CAAC 1-213) | m ² | 4,155 | | | | | |
| 3 | Cement concrete 5.0Mpa (T45-32cm) (CAAC 1-213) | m ² | 1,385 | | | | | |
| 4 | Lime flyash stabilized crushed stone (upper-subbase) (T 18cm) (CAAC 1-175) | m ² | 72,154 | | | | | |
| 5 | Lime flyash stabilized crushed stone (lower-subbase) (T 18cm) (CAAC 1-175) | m ² | 36,077 | | | | | |
| 6 | Asphalt coating on joint (T 2mm) (CAAC 1-224) | m ² | 3,446 | | | | | |
| 7 | Dummy joint cutting (W0.4cm, D8cm) (CAAC 1-228) | m | 7,142 | | | | | |
| 8 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 15,077 | | | | | |
| 9 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 15,077 | | | | | |
| 10 | Traction type finishing (CAAC 1-225) | m ² | 35,708 | | | | | |
| 11 | Curing(film) (CAAC1-236) | m ² | 35,708 | | | | | |
| | Sub-total | | | | | | | |
| 37 | Apron Shoulder | | | | | | | |
| 1 | Cement concrete 4.5Mpa (T 16cm) (CAAC 1-208) | m ² | 13,966 | | | | | |
| 2 | Cement concrete 4.5Mpa (T 12cm) | | | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|----------|--|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 3 | (CAAC 1-208) Cement concrete 5.0Mpa (T 26cm) | m ² | 5,829 | | | | | |
| 4 | (CAAC 1-214) Precast concrete block (CAAC1-215) | m ² | 12,334 | | | | | |
| 5 | Lime flyash stabilized crushed stone (upper-subbase) (T 18cm) (CAAC 1-175) | m ³ | 26.4 | | | | | |
| 6 | Lime flyash stabilized crushed stone (lower-subbase) (T 18cm) (CAAC 1-175) | m ² | 13,058 | | | | | |
| 7 | Lime flyash stabilized crushed stone (upper-subbase) (T 16cm) (CAAC 1-175) | m ² | 13,058 | | | | | |
| 8 | Lime flyash stabilized crushed stone (lower-subbase) (T 16cm) (CAAC 1-175) | m ² | 21,586 | | | | | |
| 9 | Crushed stone for Sub-base course (T20cm)(CAAC 1-193,194) | m ² | 21,234 | | | | | |
| 10 | Asphalt coating on joint (T 2mm) (CAAC 1-224) | m ² | 352 | | | | | |
| 11 | Expansion joint board (T 2cm) (CAAC 1-218) | m ² | 3,174 | | | | | |
| 12 | Dummy joint cutting (W0.4cm, D8cm) (CAAC 1-230) | m | 293.4 | | | | | |
| 13 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 2,467 | | | | | |
| 14 | PUT joint sealing (W2cm) (CAAC 1-233) | m | 21,704 | | | | | |
| 15 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 3,260 | | | | | |
| 16 | Traction type finishing (CAAC 1-225) | m ² | 16,496 | | | | | |
| 17 | Curing(sheet) (CAAC1-234) | m ² | 32,129 | | | | | |
| | Sub-total | | 32,129 | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|-----------|--|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 38 | Overrun | | | | | | | |
| 1 | Cement concrete 5.0Mpa (T 26cm) (CAAC 1-214) | m ² | 7,560 | | | | | |
| 2 | Lime flyash stabilized crushed stone (upper-subbase) (T 18cm) (CAAC 1-175) | m ² | 7,744 | | | | | |
| 3 | Lime flyash stabilized crushed stone (lower-subbase) (T 18cm) (CAAC 1-175) | m ² | 7,744 | | | | | |
| 4 | Asphalt coating on joint (T 2mm) (CAAC 1-224) | m ² | 437 | | | | | |
| 5 | Dummy joint cutting (W0.4cm, D8cm) (CAAC 1-228) | m | 1,512 | | | | | |
| 6 | Dummy joint cutting (W0.8cm, D3cm) (CAAC 1-230) | m | 1,512 | | | | | |
| 7 | PUT joint sealing (W0.8cm) (CAAC 1-233) | m | 3,192 | | | | | |
| 8 | Traction type finishing (CAAC 1-225) | m ² | 7,560 | | | | | |
| 9 | Curing(film) (CAAC1-236) | m ² | 7,560 | | | | | |
| | Sub-total | | | | | | | |
| 39 | Steel Works, | | | | | | | |
| | Hauling and Curing of Sub-base Materials | | | | | | | |
| 1 | Fabrication of reinforcement bar(φ ≤ 10) (CAAC1-412) | ton | 215.60 | | | | | |
| 2 | Fabrication of reinforcement bar(φ > 10) (CAAC1-413) | ton | 1,348.58 | | | | | |
| 3 | Making (grooving depth >0.8cm) (CAAC1-285) | m ² | 13,437 | | | | | |
| 4 | Making (grooving depth 0.4-0.8cm)(CAAC1-284) | m ² | 24,431 | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|-----------|---|----------------|-----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 5 | Fueling hydrant well, Water supply hydrant well (CAAC1-419) | ton | 3.42 | | | | | |
| 6 | Making and fabrication of tie bar (CAAC1-416) | ton | 474.08 | | | | | |
| 7 | Making and fabrication of slip bar (CAAC1-414) | ton | 1,659.18 | | | | | |
| 8 | Making and fabrication of earthing(CAAC1-418) | ton | 2.28 | | | | | |
| 9 | Making and fabrication of anchor bar(CAAC1-417) | ton | 0.15 | | | | | |
| 10 | Hauling of semi-manufactured cement concrete | m ³ | 567,760 | | | | | |
| 11 | Hauling of sub-base materials (CAAC1-439) | m ³ | 735,839 | | | | | |
| 12 | Curing of sub-base course (CAAC1-197) | m ² | 4,060,148 | | | | | |
| 13 | Hauling of metal materials (CAAC1-440,441) | ton | 7,132 | | | | | |
| | Sub-total | | | | | | | |
| 40 | Marking | | | | | | | |
| 1 | Runway(Yellow, W10m) | m ² | 2,400 | | | | | |
| 2 | Runway(Yellow, W1.5m- 3.0m) | m ² | 3,192 | | | | | |
| 3 | Runway(Yellow, W0.9m) | m ² | 7,845 | | | | | |
| 4 | Taxiway(Yellow, W0.15m-0.3m) | m ² | 13,573 | | | | | |
| 5 | Apron (Yellow, W0.15m-0.3m) | m ² | 9,607 | | | | | |
| 6 | Apron (Yellow, W0.6m) | m ² | 387 | | | | | |
| 7 | Apron (Red, W0.2m) | m ² | 864 | | | | | |
| | Sub-total | | | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|----------|--------------------------------|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 41 | Anchor Beam | | | | | | | |
| 1 | Excavation | m ³ | 3,370 | | | | | |
| 2 | Concrete 5.0 Mpa | m ³ | 1,614 | | | | | |
| 3 | C-15 Concrete | m ³ | 3,972 | | | | | |
| 4 | Reinforcement bar(φ>10) | ton | 198.95 | | | | | |
| | Sub-total | | | | | | | |
| | Total of Pavement Works | | | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|---------------------------------------|---|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| I-3 | Drainage Works | | | | | | | |
| | Direct Works | | | | | | | |
| Area A | | | | | | | | |
| 1. Masonry Ditch | | | | | | | | |
| 1 | Excavation (CAAC1-028) | m ³ | 186,739 | | | | | |
| 2 | Masonry Work (CAAC1-371) | m ³ | 21,130 | | | | | |
| 3 | Wooden expansion board (T2cm) (CAAC1-233) | m ³ | 2,017 | | | | | |
| 4 | Gritstone bedding (CAAC1-287) Sub-total | m ³ | 6,434 | | | | | |
| 2. Box Culvert, U- shape Drain | | | | | | | | |
| 1 | Steel fibre precast concrete cover (C45) | m ³ | 1,887 | | | | | |
| 2 | In-situ concrete cover(C30) (S6-3-41) | m ³ | 89 | | | | | |
| 3 | Precast concrete cover(C30) (CAAC1-401) | m ³ | 2,630 | | | | | |
| 4 | Fabrication of precast cover (CAAC1-406) | m ³ | 4,517 | | | | | |
| 5 | Cover hauling(S=3000m) (CAAC1-444,445) | m ³ | 4,517 | | | | | |
| 6 | Concrete box culvert(C25) (CAAC1-376) | m ³ | 4,334 | | | | | |
| 7 | In-situ concrete(C25) (CAAC1-375) | m ³ | 16,635 | | | | | |
| 8 | Excavation (CAAC1-028) | m ³ | 140,476 | | | | | |
| 9 | Backfilling with ordinary soil (CAAC1-332) | m ³ | 41,248 | | | | | |
| 10 | Backfilling with crushed stones (CAAC1-332) | m ³ | 2,353 | | | | | |
| 11 | Backfilling with concrete(c7.5) (CAAC1-332) | m ³ | 27,576 | | | | | |
| 12 | Joint sealing (CAAC1-391) | m ² | 42,992 | | | | | |
| 13 | PVC expansion board(T 2cm) (CAAC1-218) | m ² | 1,291 | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|----------|---|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 14 | Cement concrete bedding (C15) (CAAC1-294) | m ³ | 4,860 | | | | | |
| 15 | Crushed stones bedding (CAAC1-287) | m ³ | 4,006 | | | | | |
| 16 | Fabrication of reinforcement bar ($\phi \leq 10$) (CAAC1-412) | t | 54,215 | | | | | |
| 17 | Fabrication of reinforcement bar ($\phi > 10$) (CAAC1-413) | t | 2,212.19 | | | | | |
| 18 | Type A Cast steel grating cover (E-2) | t | 19.81 | | | | | |
| 19 | Type A Cast steel grating cover (E-2) | t | 19.28 | | | | | |
| 20 | Hauling of semi-manufactured cement concrete (CAAC1-436,437) | m ³ | 53,494 | | | | | |
| 21 | Hauling of metal materials (CAAC1-440,441) | t | 2,754.34 | | | | | |
| | Sub-total | | | | | | | |
| | Total of Area A | | | | | | | |
| | Area B | | | | | | | |
| | 1. Masonry Ditch | | | | | | | |
| 1 | Excavation (CAAC1-028) | m ³ | 186,739 | | | | | |
| 2 | Masonry Work (CAAC1-371) | m ³ | 21,130 | | | | | |
| 3 | Wooden expansion board (T2cm) (CAAC1-233) | m ³ | 2,017 | | | | | |
| 4 | Gritstone bedding (CAAC1-287) | m ³ | 6,434 | | | | | |
| | Sub-total | | | | | | | |
| | 2. Box Culvert, U-shape Drain | | | | | | | |
| 1 | In-situ concrete cover (C30) (S6-3-41) | m ³ | 108 | | | | | |
| 2 | Precast concrete cover (C30) (CAAC1-401) | m ³ | 2,087 | | | | | |
| 3 | Fabrication of precast cover (CAAC1-406) | m ³ | 2,087 | | | | | |
| 4 | Cover hauling (S=3000m) (CAAC1-444,445) | m ² | 2,087 | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|----------|--|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 5 | Concrete box culvert(C25) (CAACI-376) | m ³ | 2,997 | | | | | |
| 6 | In-situ concrete(C25) (CAACI-375) | m ³ | 9,592 | | | | | |
| 7 | Excavation (CAACI-028) | m ³ | 97,216 | | | | | |
| 8 | Backfilling with ordinary soil (CAACI-332) | m ³ | 33,548 | | | | | |
| 9 | Backfilling with crushed stones (CAACI-332) | m ³ | 1,763 | | | | | |
| 10 | Backfilling with concrete(C7.5) (CAACI-332) | m ³ | 13,181 | | | | | |
| 11 | Joint sealing (CAACI-391) | m ² | 67,658 | | | | | |
| 12 | PVC expansion board(T 2cm) (CAACI-218) | m ² | 767 | | | | | |
| 13 | Cement concrete bedding(C15) (CAACI-294) | m ³ | 2,506 | | | | | |
| 14 | Crushed stones bedding (CAACI-287) | m ³ | 2,386 | | | | | |
| 15 | Fabrication of reinforcement bar($\phi \leq 10$) (CAACI-412) | t | 29,589 | | | | | |
| 16 | Fabrication of reinforcement bar($\phi > 10$) (CAACI-413) | t | 1,025.29 | | | | | |
| 17 | Section steel grating cover (E-3) | t | 1.01 | | | | | |
| 18 | Hauling of semi-manufactured cement concrete (CAACI-436,437) | m ³ | 28,384 | | | | | |
| 19 | Hauling of metal materials (CAACI-440,441) | t | 1,321.18 | | | | | |
| | Sub-total | | | | | | | |
| | Total of Area B | | | | | | | |
| | Total of Drainage Works | | | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|---------------|--|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 1-4 | Regulating Pond and Pump Station Direct Works | | | | | | | |
| Area A | | | | | | | | |
| 1 | Regulating Pond | | | | | | | |
| 1 | Excavation and hauling of soil to fill area (CAAC 1-058) | m ³ | 96,121 | | | | | |
| 2 | Masonry work (T30cm) (CAAC 1-371) | m ³ | 6,994 | | | | | |
| 3 | Joint sealing (CAAC 1-391) | m ² | 23,314 | | | | | |
| | Sub-total | | | | | | | |
| 2 | Pump Station | | | | | | | |
| 1 | Machine excavation (CAAC 1-058) | m ³ | 7,021 | | | | | |
| 2 | Manual excavation (CAAC 1-028) | m ³ | 221 | | | | | |
| 3 | Disposal of residual Materials (CAAC 1-108) | m ³ | 4,999 | | | | | |
| 4 | In-situ concrete (C20) (CAAC 1-375) | m ³ | 1,811 | | | | | |
| 5 | Leveling concrete (C15) (CAAC 1-294) | m ³ | 44 | | | | | |
| 6 | Wooden form | m ³ | 197 | | | | | |
| 7 | Maccadam stone bedding (CAAC 1-287) | m ³ | 177 | | | | | |
| 8 | Backfilling with ordinary soil (CAAC 1-332) | m ³ | 2,243 | | | | | |
| 9 | Reinforcement bar (CAAC 1-413, 440, 441) | ton | 198 | | | | | |
| | Sub-total | | | | | | | |
| 3 | Control Room | | | | | | | |
| 1 | Manual excavation | m ³ | 105 | | | | | |
| 2 | Disposal of residual Materials | m ³ | 54 | | | | | |
| 3 | In-situ concrete (C20) | m ³ | 79 | | | | | |
| 4 | Leveling concrete (C15) | m ³ | 9 | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|----------|--|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 5 | Wooden form | m ³ | 16 | | | | | |
| 6 | Maccadam stone bedding | m ³ | 28 | | | | | |
| 7 | Backfilling with ordinary soil | m ³ | 51 | | | | | |
| 8 | Reinforcement bar | ton | 6 | | | | | |
| 9 | Finishing work | Lot | 1 | | | | | |
| | Sub-total | | | | | | | |
| 4 | Furnishing and Installation of Pumping Equipment | | | | | | | |
| 1 | Storm water pump (Φ 1, 200mm × 120m ³ /m × 2. 92m × 90kW) | ea | 6 | | | | | |
| 2 | Flap valve (Φ 1,200mm) | ea | 5 | | | | | |
| 3 | Automatic raking machine (W2.0m × H5. 0m × 2. 2kW) | ea | 5 | | | | | |
| 4 | Automatic raking machine (W2.0m × H5. 0m × 2. 2kW) | ea | 2 | | | | | |
| 5 | Flood gate (sluice type, W2.0m x H2.0m x 6.0kW) | ea | 1 | | | | | |
| 6 | Water level indicator | ea | 1 | | | | | |
| 7 | Stop logs (W2.25m x H1.0m (5 pieces)) | ea | 2 | | | | | |
| 8 | PVC pipe for pumps | m | 10 | | | | | |
| 9 | Electrical equipment | LS | | | | | | |
| | Sub-total | | | | | | | |
| | Total of Area A | | | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|--------------------------|--|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| Area B | | | | | | | | |
| 1 Regulating Pond | | | | | | | | |
| 1 | Excavation and hauling of soil to fill area (CAAC 1-058) | m ³ | 107,056 | | | | | |
| 2 | Masonry work (T30cm) (CAAC 1-371) | m ³ | 7,024 | | | | | |
| 3 | Joint sealing (CAAC 1-391) | m ² | 23,412 | | | | | |
| | Sub-total | | | | | | | |
| 2 Pump Station | | | | | | | | |
| 1 | Machine excavation (CAAC 1-058) | m ³ | 7,021 | | | | | |
| 2 | Manual excavation (CAAC 1-028) | m ³ | 221 | | | | | |
| 3 | Disposal of residual Materials (CAAC 1-108) | m ³ | 4,999 | | | | | |
| 4 | In-situ concrete (C20) (CAAC 1-375) | m ³ | 1,811 | | | | | |
| 5 | Leveling concrete (C15) (CAAC 1-294) | m ³ | 44 | | | | | |
| 6 | Wooden form | m ³ | 197 | | | | | |
| 7 | Maccadam stone bedding (CAAC 1-287) | m ³ | 177 | | | | | |
| 8 | Backfilling with ordinary soil (CAAC 1-332) | m ³ | 2,243 | | | | | |
| 9 | Reinforcement bar (CAAC 1-413, 440, 441) | ton | 198 | | | | | |
| | Sub-total | | | | | | | |
| 3 Control Room | | | | | | | | |
| 1 | Manual excavation | m ³ | 105 | | | | | |
| 2 | Disposal of residual Materials | m ³ | 54 | | | | | |
| 3 | In-situ concrete (C20) | m ³ | 79 | | | | | |
| 4 | Leveling concrete (C15) | m ³ | 9 | | | | | |
| 5 | Wooden form | m ³ | 16 | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|----------|--|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 6 | Maccadam stone bedding | m ³ | 28 | | | | | |
| 7 | Backfilling with ordinary soil | m ³ | 51 | | | | | |
| 8 | Reinforcement bar | ton | 6 | | | | | |
| 9 | Finishing work | Lot | 1 | | | | | |
| | Sub-total | | | | | | | |
| 4 | Furnishing and Installation of Pumping Equipment | | | | | | | |
| 1 | Storm water pump (Φ 1,200mm × 120m ³ /m × 2.92m × 90kW) | ea | 6 | | | | | |
| 2 | Flap valve (Φ 1,200mm) | ea | 5 | | | | | |
| 3 | Automatic raking machine (W2.0m × H5.0m × 2.2kW) | ea | 5 | | | | | |
| 4 | Automatic raking machine (W2.0m × H5.0m × 2.2kW) | ea | 2 | | | | | |
| 5 | Flood gate (sluice type, W2.0m x H2.0m x 6.0kW) | ea | 1 | | | | | |
| 6 | Water level indicator | ea | | | | | | |
| 7 | Stop logs (W2.25m x H1.0m (5 pieces)) | ea | 2 | | | | | |
| 8 | PVC pipe for pumps | m | 10 | | | | | |
| 9 | Electrical equipment | LS | | | | | | |
| | Sub-total | | | | | | | |
| | Total of Area B | | | | | | | |
| | Total of Regulating Pond and Pump Station | | | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|------------|--|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 1-5 | Appurtenant Works | | | | | | | |
| | Direct Works | | | | | | | |
| 1 | Perimeter Road, Maintenance Road | | | | | | | |
| 1 | Fine asphalt concrete surface course(T 3cm) (CAAC1-257,258) | m ² | 29,666 | | | | | |
| 2 | Course asphalt concrete base course(T 6cm) (CAAC1-249,250) | m ² | 29,666 | | | | | |
| 3 | Lime flyash stabilized crushed stones (Upper-subbase)(T15cm)(CAAC1-175,176) | m ² | 34,958 | | | | | |
| 4 | Lime flyash stabilized crushed stones (Lower-subbase)(T15cm)(CAAC1-175,176) | m ² | 34,958 | | | | | |
| 5 | Tack coat(0.4kg/m ²) (CAAC1-263) | m ² | 29,666 | | | | | |
| 6 | Prime coat(0.8kg/m ²) (CAAC1-265) Sub-total | m ² | 29,666 | | | | | |
| 2 | Perimeter Fence (Brick Type) | | | | | | | |
| 1 | Brick work (CAAC 1-427) | m ³ | 1,758 | | | | | |
| 2 | In-situ concrete (C15) (CAAC 1-294) | m ³ | 157 | | | | | |
| 3 | Maccadam stone bedding (CAAC 1-287) Sub-total | m ³ | 157 | | | | | |
| 3 | Perimeter Fence (Steel Bar Type) | | | | | | | |
| 1 | Reinforcement bar (CAAC 1-413, 440, 441) | ton | 146.7 | | | | | |
| 2 | Structural steel | ton | 157.6 | | | | | |
| 3 | In-situ concrete (C15) (CAAC 1-294) Sub-total | m ³ | 3,630 | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|----------|--|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 4 | Gate | ea | 4 | | | | | |
| 5 | Blast Fence | | | | | | | |
| 1 | Blast wall (CAAC1-376) | m ³ | 1,896 | | | | | |
| 2 | Reinforcing web (CAAC1-376) | m ³ | 1,128 | | | | | |
| 3 | Footing foundation (CAAC1-294) | m ³ | 3,444 | | | | | |
| 4 | Concrete subslab (CAAC1-294) | m ³ | 598 | | | | | |
| 5 | Crushed stone (CAAC1-294) | m ³ | 598 | | | | | |
| 6 | Reinforcement bar (CAAC1-413) | ton | 534 | | | | | |
| | Sub-total | | | | | | | |
| 6 | GSE Route (Pass, Passage) | | | | | | | |
| 1 | Fine asphalt concrete surface course(T 4cm) (CAAC1-257,258) | m ² | 30,059 | | | | | |
| 2 | Course asphalt concrete base course(T 6cm) (CAAC1-249,250) | m ² | 30,059 | | | | | |
| 3 | Lime flyash stabilization for crushed stones(T18cm) (CAAC1-175,176) | m ² | 33,336 | | | | | |
| 4 | Lime flyash stabilization for crushed stones(T18cm) (CAAC1-175,176) | m ² | 33,336 | | | | | |
| 5 | Crushed stones for sub-base course(T 20cm) (CAAC1-193,194) | m ² | 33,336 | | | | | |
| 6 | Tack coat(0.4kg/m2) (CAAC1-263) | m ² | 30,059 | | | | | |
| 7 | Prime coat (AAC1-265) | m ² | 30,059 | | | | | |
| | Sub-total | | | | | | | |

Shanghai Pudong International Airport Project (Airside Civil Works)

| Item No. | Description of Works | Unit | Quantity | Foreign Cost Component (Yen) | | Local Cost Component (China RMB) | | Combined Total China RMB |
|-----------|---|----------------|----------|------------------------------|--------|----------------------------------|--------|--------------------------|
| | | | | Rate | Amount | Rate | Amount | |
| 7 | Hauling and Curing of Sub-base Materials | | | | | | | |
| 1 | Hauling of sub-base materials (CAAC1-439) | m ³ | 29,155 | | | | | |
| 2 | Curing of sub-base course (CAAC1-197) | m ² | 59,725 | | | | | |
| 3 | Hauling of metal materials (CAAC1-440,441) Sub-total | ton | 1,279 | | | | | |
| 8 | Power Cable Duct | | | | | | | |
| 1 | Excavation | m ³ | | | | | | |
| 2 | Crushed stone bedding | m ³ | | | | | | |
| 3 | Filling with sand | m ³ | | | | | | |
| 4 | In-situ concrete (C20) (CAAC 1-375) | m ³ | | | | | | |
| 5 | Cement mortar (M7.5) Sub-total | m ² | | | | | | |
| 9 | Miscellaneous Steel Works | | | | | | | |
| 1 | Rebar for lighting facilities | ton | | | | | | |
| 2 | Rebar for hydrant pit | ton | | | | | | |
| 3 | Ankor bar | ton | | | | | | |
| 4 | Steel work for earthing Sub-total | ton | | | | | | |
| 10 | Precast Concrete Pile (0.45m x 0.45m x 25m) | m | | | | | | |
| | Total of Appurtenant Works | | | | | | | |

