社会開発協力部報告書

No. 8

THE KINGDOM OF NEPAL
DETAIL DESIGN REPORT
ON
THE ESTABLISHMENT PROGRAMME
OF
MEDIUM WAVE RADIO BROADCASTING NETWORK

VOLUME III
BILL OF QUANTITIES FOR BUILDINGS AND TOWERS

MARCH 1981

JAPAN INTERNATIONAL COOPERATION AGENCY

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C O N T E N T S

Preliminaries

P-1 General items

This bill of quantities is based on design drawings prepared for the building and tower construction work of the radio studio center and transmitting stations. Unless otherwise specified, this bill of quantities presents the net quantities of work or materials or both and does not include the following items.

(1) Labour

(2) Customs clearance, land transport, storage, unloading, and insurance of materials to be shipped from Japan.

(3) Maintenance and operation after completion of the work.

Anchors, fittings, fastenings or the like to be used for fitting materials or structural members at required positions shall not be included in the bill of quantities unless specifically noted. These items shall be included in related work or materials.

The following symbols and abbreviations are used throughout this bill of quantities.

LM, m : meter

SM, m^2: square meter

CM, m^3: cubic meter

mm : millimeter

cm : centimeter

P-2 Temporary work

Area calculation shall be made on the basis of design drawings by taking off the building area for leveling porfiling, the total floor area for marking off and the area to be covered by the circumstance one meter outside the building circumstance for outside scaffolding.

P-3 Earth work

Depth of excavation shall be measured from the existing ground level shown in design drawings. Unless otherwise specified, the circumference formed by 30cm outside the footing beams or the circumference of the underground wall shall be used as the circumference of excavation and a width equal to 0.3 times as large as depth shall be taken off for the width of excavation.

(1) Excavation of all types of soil and ground and excavation to all depths

(2) Ground leveling, tampering, curbing, and grading

(3) Back filling around foundations and walls and walls and under concrete slabs with suitable soil produced by excavation or carried in from outside the site.

P-4 Reinforced concrete work

The quantities of concrete and reinforced concrete shall be taken off on the basis of net volumes indicated in design drawings.
For small openings, cuts, projections, or holes including those to be produced by piping and those not, within face areas of $1m^2$ deduction of concrete is not made.

The quantities of forms shall be taken off by the net areas of forms in contact with concrete. For openings with areas not exceeding $1m^2$ (including those to be produced by piping and those not), deduction of forms shall not be made.

For reinforcing bars, quantities shall be taken off by net weight. However, 5% of the total weight shall be added in consideration of loss by cutting. Lengths necessary for lap joints, hooks at ends, and anchors shall be included in the quantities through conversion to net weight.

P-5 Structural steel work

Quantities for structural steel work shall be taken off by net weights. However, loss by cutting shall be included for respective types of steel : 7% for steel plates, and 5% for other structural steel, bolts, etc.,

P-6 Brick masonry

Quantities for masonry shall be taken off by net areas of surfaces produced by masonry. For areas less than $0.5m^2$ (including those to be produced by piping and those not), deduction of masonry is not employed.
The work for beams on brick walls shall be included in the reinforced concrete work.
Brick masonry shall include setting cement plastering, joint filling, and anchor work (when necessary).

P-7 Metal work

Unless otherwise specified, metal work shall include the specified or necessary materials of various types, jointing, welding, fitting of anchors and caps, fastening by screws, fastening by bolts, galvanization and shop painting, and painting at the site.

P-8 Carpentry

Quantities of structural wood members shall be taken off by first calculating the volumes of respective members from dimensions specified in design drawings and summing up these volumes into a total net volume. However, the total volume thus obtained shall be increased by 10% in consideration of loss by cutting or edge processing.

Unless otherwise specified, the carpentry shall included specified or necessary nails, wood screws, bolts, anchors, fastners, clamps, finishing hardware, auxiliary hardware, and accessories. Quantities for the backing of suspended ceilings shall be taken off by the net area of suspended ceilings.

P-9 Roofing work

Quantities of precoated galvanized steel sheet shall be taken off by the net areas to be covered. The quantities for the roofing work shall include necessary allowance in consideration of lap, rising, and loss by cutting. Quantities for metal plate work shall include necessary allowance on account of lap joint, seam, flashing and similar members, cutting, and mounting.

P-10 Doors, windows & glazing

Wood windows and wood doors shall include all specified hardware. Metal doors and metal windows shall include all hardware described in specifications and indicated in design drawings. The quqntities of glass shall be taken off by the net areas of such openings to be glazed at transoms, screens, and door frames and these net areas are summed. Necessary allowance for glazing shall be included.

P-11 Finish work

1) Quantities for asphalt layers shall be taken off by the net areas of horizontal and vertical surfaces. All allowance to be required on account of lap joint, cutting, loss by processing, covering around drainage pipes and similar work shall be included.

2) Quantities for plastering shall be taken off by the net areas to be plastered, for areas of less than $0.5m^2$ (including those to be produced by piping and those not), deduction of plastering shall not be made. Plastering shall include metal and wire laths to be applied to such joints of masonry brick, iron, and different materials that shall be plastered.

3) Quantities for tiling on floors and walls shall be taken off by the net areas to be tiled. Allowance shall be included for loss to be caused by cut and other work.

4) Quantities for terrazzo tile and laying of terrazzo on floor shall be taken off by the net areas to be covered by terrazzo work. For terrazzo work, loss to be caused by cutting and other work shall be considered. The terrazzo work shall include fitting, indicated or specified or necessary anchors, joint filling, polishing, and specified or necessary reinforcement of terrazzo blocks.

5) Quantities for the painting work shall be taken off by the net areas to be painted. The painting work shall include all processings of all bed surfaces.

6) Quantities for the interior finish work shall be taken off on the basis of areas obtained by subtracting areas by the inside dimensions or indicated dimensions

of the openings of fittings and others from net areas by design dimensions or indicated dimensions. For areas of openings of less than 0.5m (indlucing those to be produced by piping and those not), deduction of interior finish work is not employed.

P-12 Miscellaneous work

The miscellaneous work shall include assembly, fixing members by bolt, fastening by screws and by nails, fitting of wood members, height adjustment, fixing members to walls or floors or both, finishing units into complete ones, and specified or necessary finished hardware, shop painting, and painting in the construction site.

P-13 Electrical work

Quantities for wires, cables, and conduits shall be taken off by actual lengths (indicated in drawings and not including lengths for connection) plus 20% necessary on account of loss.
For boxes, piping fixtures, lighting fixtures, etc., actual quantities (obtained from drawings) shall be taken off.

P-14 Plumbing work

For material other than cast steel pipes, quantities obtained by adding 10% to actual quantities shall be taken as design quantities. The required quantities shall be obtained by adding 10% to the design quantities. In the case of cast steel pipes, actual quantities shall be equal to design quantities which shall be equal to the required quantities. For valves and fittings, actual quantities shall be taken off for the required quantities.

P-15 Air conditioning work

For piping materials, design quantities shall be obtained by adding 10% of quantities for actual lenths and the required quantities shall be obtained by adding 10% of the design quqntities.
For electric wiring and piping of automatic control equipment, quantities to be obtained for actual lenths shall be used as design quantities. The required quqntities shall be obtained by adding allowance and loss, which shall be respectively 10% and 15% of the design quantities. For air ducts, design quantities shall be obtained by adding 10% of actual quantities and the required quantities shall be obtained by adding the loss of 30% of the design quantities. For equipment, valves and fixtures, actual quantities shall be used as the required quantities.

P-16 Tower work

For those items of work included in earth work, reinforced concrete work, and other works and yet applicable to this work, remarks given in the respective work shall apply to quantities to be taken off and items of work to be included, unless otherwise spcefied.
Quantities for steel work shall be taken off by net weights. However, loss by cutting shall be included for respective types of steel: 5% for angle steel of L-50 x 50 x 4∿L-75 x 75 x 9, 7% for angle steel of L-90 x 90 x 7∿L150 x 150 x 19, 15% for steel plates, 6% for flat steel, 7% for channel steel, and 10% for steel pipes, bolts, etc.

A. BUILDING CONSTRUCTION WORK

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE)		JAPAN (YEN)		(YEN)
				UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	TOTAL
A	建築工事 (BUILDING CONSTRUCTION WORK)							
A-1	カトマンズ演奏所建築工事	LS	1					
	(KATHMANDU STUDIO CENTRE BUILDING							
	CONSTRUCTION WORK)							
A-2	カトマンズ送信所建築工事	LS	1					
	(KATHMANDU TRANSMITTING STATION							
	BUILDING CONSTRUCTION WORK)							
A-3	ポカラ送信所建築工事	LS	1					
	(POKHRA TRANSMITTING STATION							
	BUILDING CONSTRUCTION WORK)							
	計 (TOTAL)							

A-1 Kathmandu Studio Centre
Building Construction Work

STUDIO

	ITEM		UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
	A-1 カトマンズ演奏所建築工事								
	(KATHMANDU STUDIO SENTRE)								
(1)	仮設工事	(TEMPORARY WORK)	LOT	1					
(2)	土工事	(EARTH WORK)	〃	1					
(3)	鉄筋コンクリート工事	(REINFORCED CONCRETE WORK)	〃	1					
(4)	鉄骨工事	(STRUCTUAL STEEL WORK)	〃	1					
(5)	組積工事	(MASONRY)	〃	1					
(6)	金属工事	(METAL WORK)	〃	1					
(7)	木工事	(CARPENTRY)	〃	1					
(8)	屋根工事	(ROOFING WORK)	〃	1					
(9)	建具工事	(DOORS, WINDOWS & GLAZING)	〃	1					

STUDIO

	ITEM		UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
(10)	仕上工事	(FINISH WORK)	LOT	1					
(11)	雑工事	(SPECIALITIES)	〃	1					
	計								

STUDIO

	ITEM		UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
(1)	仮設工事	(TEMPORARY WORK)							
1	水盛遣方	(LAYOUT OF BUILDING)	SM	1,143					
2	墨出	(FINISH MARKING)	〃	1,143					
3	コンクリート足場架払	(SCAFFOLDING FOR CONC WORK)	〃	1,143					
4	鉄筋足場架払	(SCAFFOLDING FOR RE-BAR WORK)	〃	1,143					
5	外部足場架払	(SCAFFOLDING OF EXTERIOR WALL)	〃	1,295					
6	内部足場損料	(INTERIOR SCAFFOLDING)	〃	1,029					
7	〃 H=5,000	(DITTO)	〃	114					
8	型枠支保工	(SHORING)	CM	6417					
9	片付清掃費	(CLEANING)	SM	1,143					

STUDIO

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE)		JAPAN (YEN)		(YEN)
				UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	TOTAL
	A-1-(1) 小 計 (SUB TOTAL)							

STUDIO

	ITEM		UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
(2)	土工事	(EARTH WORK)							
1	根切	(BUILDING EXCAVATION)	CM	702					
2	残土処分	(DISPOSAL)	〃	258					
3	埋戻し	(BACKFILL)	〃	431					
4	砕石敷	(CRUSHED STONE)	〃	28.8					
	基礎・地中梁下	BELOW FOUNDATION & BEAM							
5	〃	(DITTO)	〃	16.0					
	土間下	BELOW GROUND FLOOR SLAB							
6	盛土	(SOIL BANKING)	〃	12.2					
7	床付	(GRADING & COMPACTION)	SM	672					
	基礎・地中梁	FOUNDATION & TIE BEAM)							

STUDIO

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE)		JAPAN (YEN)		(YEN)
				UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	TOTAL
	A-1-(2) 小 計 (SUB TOTAL)							

	ITEM		UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
(3)	鉄筋コンクリート工事	(REINFORCED CONCRETE WORK)							
1	コンクリート工事	(CONCRETE WORK)	LOT	1					
2	型枠工事	(FORM WORK)	LOT	1					
3	鉄筋工事	(REINFORCING STEEL BAR WORK)	LOT	1					
	A-1-(3) 小計	(SUB TOTAL)							

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
	(3)-1 コンクリート工事 (CONCRETE WORK)							
1	捨 コンクリート (MUD CONCRETE) 150 kg/cm²	CM	24.0					
2	鉄筋 コンクリート (REINFORCED CONCRETE) (基礎・地中梁) 120 kg/cm² (FOUNDATION & TIE BEAM)	CM	422					
3	〃 (DITTO) (1階柱) 〃 (GROUND FLOOR COLUMN)	〃	44.5					
4	〃 (DITTO) (2階柱) 〃 (1ST. FLOOR COLUMN)	〃	12.4					
5	〃 (DITTO) (3階柱) 〃 (2ND FLOOR COLUMN)	〃	6.5					
6	〃 (DITTO) (2階梁) 〃 (1ST. FLOOR GIRDER)	〃	78.5					

STUDIO

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
7	鉄筋コンクリート (REINFORCED CONCRETE)	C M	59.0					
	(3階梁) 180 kg/cm² (2ND FLOOR GIRDER)							
8	〃 (DITTO)	〃	136					
	(1階床) 〃 (GROUND FLOOR SLAB)							
9	〃 (DITTO)	〃	72.0					
	(2階床) 〃 (1ST FLOOR SLAB)							
10	〃 (DITTO)	〃	56.4					
	(3階床) 〃 (2ND FLOOR WALL)							
11	〃 (DITTO)	〃	202					
	(1階壁) 〃 (GROUND FLOOR WALL)							
12	〃 (DITTO)	〃	62.2					
	(2階壁) 〃 (1ST FLOOR WALL)							
13	〃 (DITTO)	〃	27.1					
	(3階壁) (2ND FLOOR WALL)							

STUDIO

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
14	鉄筋コンクリート (REINFORCED CONCRETE)	CM	33.3					
	(雑) 180 kg/cm² (MISCELLANEOUS)							
15	土間コンクリート (FLOOR CONCRETE)	CM	39.7					
	150 kg/cm²							
	(3)-1 小計 (SUB TOTAL)							

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
	(3)-2 型枠工事 (FORM WORK)							
1	型枠組払シ (FORM SETTING & REMOVAL) (基礎地中梁) (FOUNDATION · TIE BEAM)	SM	1841					
2	〃 (DITTO) (2階梁) (1ST FLOOR GIRDER)	〃	605					
3	〃 (DITTO) (3階梁) (2ND FLOOR GIRDER)	〃	395					
4	〃 (DITTO) (1階床) (GROUND FLOOR SLAB)	〃	905					

STUDIO

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
5	型 枠 取 払 シ (FORM SETTING & REMOVAL)	S M	600					
	(2 階 床) (1ST FLOOR SLAB)							
6	—— 〃 —— (DITTO)	〃	376					
	(3 階 床) (2ND. FLOOR SLAB)							
7	—— 〃 —— (DITTO)	〃	2449					
	(1 階 壁) (GROUND FLOOR WALL)							
8	—— 〃 —— (DITTO)	〃	691					
	(2 階 壁) (1ST FLOOR WALL)							
9	—— 〃 —— (DITTO)	〃	361					
	(3 階 壁) (2ND FLOOR WALL)							
10	—— 〃 —— (DITTO)	〃	299					
	(雑) (MISCELLANEOUS)							
11	—— 〃 —— (DITTO)	〃	310					
	(土 間 止 メ 枠) (GROND FLOOR SLAB)							

STUDIO

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
12	型枠組払シ (FORM SETTING & REMOVAL)	SM	386					
	(1階柱) (GROUND FLOOR COLUMN)							
13	——〃—— (DITTO)	〃	100					
	(2階柱) (1ST FLOOR COLUMN)							
14	——〃—— (DITTO)	〃	57.6					
	(3階柱) (2ND FLOOR COLUMN)							
	(3)-2 小計 (SUB TOTAL)							

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
	(3)-3 鉄筋工事							
	(REINFORCING STEEL BAR WORK)							
1	鉄筋 加工組立 (RE BAR ARRANGEMENT)	KG	40.611					
	(基礎・地中梁) SD30 (FOUNDATION・TIE BEAM)							
2	—— 〃 —— (DITTO)	〃	8.236					
	(1階柱) 〃 (GROUND FLOOR COLUMN)							
3	—— 〃 —— (DITTO)	〃	2.524					
	(2階柱) 〃 (1ST FLOOR COLUMN)							
4	—— 〃 —— (DITTO)	〃	1.046					
	(3階柱) (2ND FLOOR COLUMN)							
5	—— 〃 —— (DITTO)	〃	11.957					
	(2階梁) 〃 (1ST FLOOR GIRDER)							
6	—— 〃 —— (DITTO)	〃	8.403					
	(3階梁) 〃 (2ND FLOOR GIRDER)							

STUDIO

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
7	鉄筋加工組立 (RE-BAR ARRANGEMENT)	KG	13.004					
	(1 階床) SD30 (GROUND FLOOR SLAB)							
8	——— 〃 ——— (DITTO)	〃	7.704					
	(2 階床) 〃 (1ST FLOOR SLAB)							
9	——— 〃 ——— (DITTO)	〃	4.830					
	(3 階床) 〃 (2ND FLOOR SLAB)							
10	——— 〃 ——— (DITTO)	〃	26.202					
	(1 階壁) 〃 (GROUND FLOOR WALL)							
11	——— 〃 ——— (DITTO)	〃	10.175					
	(2 階壁) 〃 (1ST FLOOR WALL)							
12	——— 〃 ——— (DITTO)	〃	2.197					
	(3 階壁) 〃 (2ND FLOOR WALL)							
13	——— 〃 ——— (DITTO)	〃	4.807					
	(雑) 〃 (MISCELLANEOUS							

STUDIO

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
14	ワイヤー メッシュ (WELDED MESH)	SM	24.8					
	6φ - 100×100							
	(3)-3 小 計 (SUB TOTAL)							

STUDIO

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
(4)	鉄骨工事 (STRUCTUAL STEEL WORK)							
1	鋼材費 (STEEL COST)	KG	35 260					
2	ハイテンションボルト M16 (T15) (HIGH TENSION BOLT)	〃	23					
3	工場製作 (SHOP FABRICATION)	〃	33 548					
4	副資材 (SUB MATERIAL)	〃	33.548					
5	工場溶接 (SHOP WELDING)	LM	571					
6	現場組立 (FIELD ERECTION)	KG	33 548					
7	錆止塗装 (PAINT)	KG	33 459					
8	ベース下均モルタル (LEVELING BASE MORTAR)	SM	43.7					

STUDIO

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
9	アンカーボルト取付手間 (ANCHOR BOLT INSTALLATION)	EA	912					
10	建　　方 (ERECTION)	KG	33,548					
11	機械器具 (MACHINE)	LOT	1					
12	運　　搬 (TRANSPORTATION)	〃	1					
	(4)- 小　計 (SUB TOTAL)							

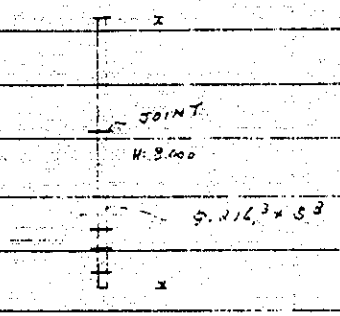
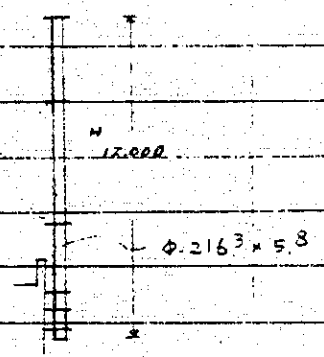
	ITEM		UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
(5)	組積工事	(MASONRY)							
1	壁レンガ積 T-220	(WALL BRICK LAYING)	SM	521					
2	—— 〃 —— T-105	(DITTO)	〃	88					
	A-1-(5) 小計	(SUB TOTAL)							

STUDIO

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
(6)	金属工事 (METAL WORK)							
	外部 (EXTERIOR)							
1	フード 銅網スクリーン HOOD (COPPER WOVEN WIRE SCREEN)	EA	1					
	600 × 1,000							
	L-70×70×3 @600 FLAT BAR 19×3 SOP	SOP	SM	0.5				
	COPPER WIRE SCREEN L-30×30×3 SOP							
	WIRE SCREEN (0.23mm φ 1.6mm MESH)							
2	ネットフェンス (NET FENCE)	LM	9.6					
	H=1,800 (既製品) H 1,800 (READY MADE)							

STUDIO

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
3	ネットフエンスド (NET FENCE DOOR) 960 × 1.700 960 × 1.700	EA	1					
	900 WIRE NETTING 30P 30P	SM	30					
	STEEL WIRE 30P							
4	床 真チュウ目地棒 (FLOOR BRASS JOINTER) 3 × 25 3 × 25	LM	45					
5	屋根 エキスパンションジョイント (ROOF EXPANSION JOINT COVER) 150 ALUMINUM (READY MADE) CAULKING ANCHORED STEEL BAR	〃	53					
6	外壁 〃 (EXTERIOR WALL - DITTO -) 9φ ANCHORED STEEL BAR CAULKING	〃	132					

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
7	鉄　　塔 (STEEL TOWER)	EA	1					
	H= 8.000　　H= 8.000							
								
	SOP	SM	x2					
	JOINT							
	H: 8.000							
	φ.216³ × 5.8							
8	鉄　　塔 (STEEL TOWER)	EA	1					
	H: 12.000　　H 12.000							
								
	SOP	SM	11.0					
	JOINT　H 12.000							
	φ.216³ × 5.8							

STUDIO

	ITEM		UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
	内部	(INTERIOR)							
9	床 真ちゅう目地棒 3×25	(FLOOR BRASS JOINTER)	LM	142					
10	床 エキスパンションジョイント アルミ W=160	FLOOR (EXPANSION JOINT COVER) ALUMINIUM DWG NO A-110	〃	219					
11	壁 エキスパンションジョイント アルミ W=160	WALL (EXPANSION JOINT COVER) ALUMINIUM DWG NO A-110	〃	50					
12	天井 エキスパンションジョイント アルミ W=160	CEILING (EXPANSION JOINT COVER) ALUMINIUM DWG NO A-110	〃	219					
13	マンホール 600φ	(MANHOLE)	EA	1					
14	タラップ ステンレス 16φ ⊔ 150	(LADDER) STAINLESS STEEL 16φ	〃	4					

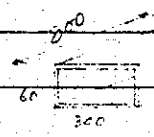
STUDIO

	ITEM		UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
15	ピット カバー	(FLOOR PIT COVER)	LM	8.6					
	スチール CR-4.5 W=500	CHEQUERED PLATE T-4.5							
	CR-4.5	DWG NO A-124							
		SOP	SM	4.3					
16	配線ピット カバー	(WIRING DUCT COVER)	LM	74.6					
	スチール 亮-4.5 W=300	GALVANIZED STEEL PLATE							
		DWG NO A-119							
		SOP	SM	22.4					
17	配線ピット カバー	(WIRING DUCT COVER)	LM	1.0					
	スチール 亮-4.5 W=200	GALVANIZED STEEL PLATE							
		DWG NO A-119							
	—— 〃 ——	SOP	SM	0.2					

STUDIO

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
18	ピットカバー枠 (PIT COVER FLAME)	LM	20					
	STEEL PLATE							
	45×15							
	L-30×30×3 SOP	SM	24					
19	ピットカバー枠 (PIT COVER FLAME)	LM	126					
	FB-25×3.2 STEEL PLATE							
	L-25×25×3 SOP	SM	18.0					

STUDIO

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
20	配線用ダクト (WIRING DUCT)	EA	10					
	スチール 厚-1.2 STEEL PLATE T-1.2							
	H 60 × W 300 L=800 DWG NO A-119							
								
21	カーテンレール (CURTAIN RAIL)	LM	30.9					
	シングル							
22	フード枠 (HOOD FLAME)	EA	1					
	スチール L-50×50×4 STEEL							
	1,000×1,000 DWG NO A-124							
23	チャンバー水抜パイプ (VINYL PIPE)	EA	1					
	VP 50φ L=150							
	DWG NO A-124							

STUDIO

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
24	軽鉄野縁受アングル (STEEL ANGLE)	EA	14					
	L-50×50×4 L=1.900 DWG NO L=1.900							
25	ノンスリップ 7° (SAFETY TREAD NOSING HARD ALUMINUM)	LM	217					
	W=35							
26	レンガ開口補強 (REINFORCEMENT AROUND WALL OPENING)	LM	244					
	L-50×50×4							
	3.2×40 @900							
27	笘摺金物 (SADDLE STAINLESS STEEL)	LM	56					
	DWG NO A-121							
	6×30							
	STEEL L-30×30×3							
	STAINLESS 6×30							
	SYNTHETIC RUBBER							
	A-1-(6) 小計 (SUB TOTAL)							

	ITEM		UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
(7)	木 工 事								
1	木造天井下地	(WOODEN OF CEILING BELOW BOARD)	SM	13.9					
2	窓 回 方 枠 (125 × 30)	(WOODEN WINDOW CASING)	LM	19.8					
		SOP	SM	2.9					
3	—— 〃 —— (90 × 30)	(DITTO)	LM	19.8					
		SOP	SM	2.2					
4	—— 〃 —— (40 × 30)	(DITTO)	LM	8.4					
		SOP	SM	0.5					

STUDIO

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
5	出入口三方枠 (WOODEN DOOR HEAD & JAMB) 75 × 30	LM	4.9					
	SOP	SM	0.6					
6	—— 〃 —— (DITTO) 100 × 45	LM	43.2					
	SOP	SM	8.2					
7	—— 〃 —— (DITTO) 345 × 30	LM	14.9					
	SOP	SM	5.8					
8	—— 〃 —— (DITTO) 385 × 30	LM	14.7					
	SOP	SM	6.3					
9	—— 〃 —— (DITTO) 515 × 30	LM	29.4					
	SOP	SM	16.5					

STUDIO

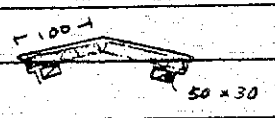
	ITEM	UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
10	出入口三方枠 (WOODEN DOOR HEAD & JAMB) 595 × 30	LM	9.8					
	SOP	SM	6.3					
11	—— 〃 —— (DITTO) 675 × 30	LM	14.9					
	SOP	SM	10.7					
12	—— 〃 —— (DITTO) 300 × 30	LM	4.8					
	SOP	SM	1.7					
13	窓四方枠 (WOODEN WINDOW CASING) 180 × 30	LM	13.2					
	SOP	SM	2.9					
14	出入口四方枠 (WOODEN DOOR CASING)	LM	64.3					
	集成材 120 x 100 LAMINATED LUMBER							

STUDIO

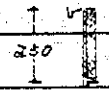
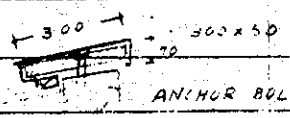
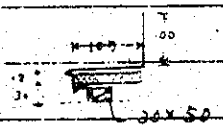
	ITEM	UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
15	壁胴縁組 (WOODEN STUD & FURRING STRIP)	CM	06					
	(29.4 m²)							
	A-1-(7) 小計 (SUB TOTAL)							

STUDIO

	ITEM		UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
(8)	屋根工事	(ROOFING WORK)							
1	着色亜鉛鍍鉄板瓦葺 T-0.4	PRECOATED GALVANIZED STEEL SHEET BATTEN SEAM ROOFING T-0.4	SM	1.139					
2	アスファルトルーフィング 23kg	(ASPHALT ROOFING FELT 23kg)	〃	1.189					
3	セメントボード T-18	(HARD CEMENTED CHIP BOAD T-18)	〃	1.189					
4	棟押え：着色亜鉛鍍鉄板 T-0.4 セメントボード T-18 (木下地共)	RIDGE: PRECOATED GALVANIZED STEEL SHEET T-0.4 HARD CEMENTED CHIP BOAD T-18 (WITH WOOD)	LM	83.2					



STUDIO

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
5	軒先：着色亜鉛鉄板 T-0.4 FASCIA: PRECOATED GALVANIZED STEEL SHEET T-0.4	LM	159					
	センチュリーボード T-18 HARD CEMENTED CHIP BOAD T-18							
								
6	笠木：着色亜鉛鉄板 T-0.4 COPING: PRECOATED GALVANIZED STEEL SHEET T-0.4	〃	91.4					
	(木下地共) (WITH WOOD)							
								
7	水切：着色亜鉛鉄板 T-0.4 FLASHING: PRECOATED GALVANIZED STEEL SHEET T-0.4	〃	63.8					
	センチュリーボード T-18 HARD CEMENTED CHIP BOAD T-18							
	(木下地共) (WITH WOOD)							
								
8	コーキング 15×15 (CAULKING)	〃	159					

STUDIO

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
9	軒樋 防水モルタル (EAVES GUTTER (WATER PROOFING MORTAR TROWEL) T-30 T-30	SM	142					
10	軒樋巾木 〃 (SKIRTING (DITTO) T-30	〃	86					
11	笠木 〃 (COPING (DITTO) T-30 T-30 195 50 15	LM	166					
12	軒裏 〃 (EAVES (DITTO)	SM	297					
13	〃 リシン吹付 (DITTO (SPRAYED LITHIN)	〃	297					
14	軒天 コンクリート打放 (EAVES SOFFIT (EXPOSED CONCRETE)	〃	130					
15	ルーフドレイン (ROOF DRAIN) φ100 ジーキング共 φ100 (WITH CAULKING)	EA	23					

STUDIO

	ITEM		UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
16	フロアードレイン	(FLOOR DRAIN)	EA	3					
	φ-100 コーキング共	φ-100 (WITH CAULKING)							
17	竪樋	(DOWN SPOUT)	LM	149					
	(塩ビ製) φ100 つかみ金物共	(VINYL) φ-100 (WITH LEADER STRAPS)							
18	防水モルタル	COPING (WATER PROOFING MORTAR TRWEL)	"	9					
	320 15 T-30	T-30							
	A-1-(8) 小計	(SUB TOTAL)							

STUDIO

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
(9)	建具工事 (DOORS, WINDOW & GLAZING)							
1	木製建具工事 (WOODEN DOOR & WINDOW WORK)	LOT	1					
2	鋼製建具工事 (STEEL DOOR & WINDOW WORK)	LOT	1					
3	アルミ製建具工事 (ALUMINIUM DOOR & WINDOW WORK)	LOT	1					
4	ガラス工事 (GLAZING WORK)	LOT	1					
5	建具雑工事 (SPECIALITIES)	LOT	1					
	A-1-(9) 小計 (SUB TOTAL)							

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
	(9)-1 木製建具工事							
	(WOODEN DOOR & WINDOW WORK)							
1	WW-1 木製窓 (WOODEN WINDOW) W 500 × H 2535	EA	3					
2	WW-2 木製窓 (WOODEN WINDOW) W 500 × H 2535	EA	10					
3	WW-3 木製窓 (WOODEN WINDOW) W 500 × H 1915	EA	4					
4	WW-4 木製窓 (WOODEN WINDOW) W 800 × H 600	EA	1					
5	WD-1 木製扉 (WOODEN DOOR) W 800 × H 2000	EA	6					
6	WD-2 木製扉 (WOODEN DOOR) W 800 × H 2000	EA	1					
7	WD-3 木製扉 (WOODEN DOOR) W 800 × H 2000	EA	2					
8	WD-4 木製扉 (WOODEN DOOR) W 550 × H 1820	EA	4					
9	WD-5 木製扉 (WOODEN DOOR) W 800 × H 2000	EA	1					

STUDIO

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
10	GS-1 硝子スクリーン (GLASS SCREEN) W 5370 × H 2700	EA	1					
11	GS-2 硝子スクリーン (GLASS SCREEN) W 5370 × H 2700	EA	1					
12	WW-1 ステンレス網戸 (STAINLESS STEEL WIRE) 小窓 W 500 × H 1295 FIXED SCREEN	EA	3					
13	WW-2 ステンレス網戸 (— DITTO —) 〃 W 500 × H 1295 — DITTO —	EA	10					
14	WW-3 ステンレス網戸 (— DITTO —) 〃 W 500 × H 1295 — DITTO —	EA	4					
15	WD-1 木製ガラリ (WOODEN LOUVER) W 600 × H 800	EA	2					
16	WD-1 木製ガラリ (— DITTO —) W 600 × H 500	EA	4					
17	WD-3 木製ガラリ (— DITTO —) W 600 × H 500	EA	2					
	(9)-1 小計 (SUB TOTAL)							

STUDIO

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
	(9)-2 鋼製建具工事							
	(STEEL DOOR & WINDOW WORK)							
1	SD-1 スチール ドア (STEEL DOOR) W 900 × H 2000	EA	3					
2	SD-2 スチール ドア (STEEL DOOR) W 800 × H 2000	EA	1					
3	SD-3 スチール ドア (STEEL DOOR) W 900 × H 2000	EA	1					
4	SD-4 スチール ドア (STEEL DOOR) W 2000 × H 2000	EA	3					
5	SD-5 スチール ドア (STEEL DOOR) W 1600 × H 2000	EA	1					
6	SL-1 スチール ガラリ (STEEL LOUVER) W 1500 × H 500	EA	1					
7	SL-2 スチール ガラリ (STEEL LOUVER) W 1100 × H 500	EA	1					
8	SL-3 スチール ガラリ (STEEL LOUVER) W 1000 × H 700	EA	1					
9	SL-4 スチール ガラリ (STEEL LOUVER) W 500 × H 500	EA	2					

STUDIO

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
10	SC-1 スクリーン (SCREEN)	EA	4					
	W 150 × H 3000							
	(9)-2 小計 (SUB TOTAL)							

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
	(9)-3 アルミ製建具工事							
	(ALUMINIUM DOOR & WINDOW WORK)							
1	PAD-C-1 アルミ製ドア (ALUMINIUM DOOR) W 900 × H 2000	EA	5					
2	PAD-C-2 アルミ製ドア (ALUMINIUM DOOR) W 1,100 × H 2000	EA	1					
3	PAD-D-1 アルミ製ドア (ALUMINIUM DOOR) W 900 × H 2000	EA	6					
4	PAD-D-2 アルミ製ドア (ALUMINIUM DOOR) W 1,100 × H 2000	EA	1					
5	PAD-Dg-1 アルミ製ドア (ALUMINIUM DOOR) W 900 × H 2000	EA	5					
6	PW-B-1 アルミ製窓 (ALUMINIUM WINDOW) W 1500 × H 900	EA	1					
7	PW-B-2 アルミ製窓 (ALUMINIUM WINDOW) W 1200 × H 600	EA	1					
8	PW-B-3 アルミ製窓 (ALUMINIUM WINDOW) W 2400 × H 900	EA	3					

STUDIO

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
	(9)-3 小 計 (SUB TOTAL)							

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
	(9)-4 ガラス工事 (GLAZING WORK)							
1	透明硝子 3M/M (CLEAR SHEET GLASS)	SM	0.5					
2	透明硝子 5M/M (CLEAR SHEET GLASS)	SM	11.5					
3	透明硝子 8M/M (CLEAR SHEET GLASS)	SM	8.6					
4	透明硝子 10M/M (CLEAR SHEET GLASS)	SM	8.6					
5	型硝子 4M/M (PATTERNED SHEET GLASS)	SM	12.7					
6	透明フロート硝子 5M/M (CLEARED FLOAT SHEET GLASS)	SM	38.3					
	クリーニング (CLEANING)	SM	80.2					
	(9)-4 小計 (SUB TOTAL)							

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
	(9)-5 建具雑工事 (SPECIALITIES)							
1	建具廻りモルタル詰メ (MORTAR GROOTING AROUND DOOR AND FRAME)	LM	423					
2	建具廻りコーキング詰メ (CAULKING GROOTING AROUND DOOR AND FRAME)	LM	488					
3	鋼製建具塗装 (PAINTING FOR STEEL DOOR AND FRAME) (ペイント)	SM	141					
4	木製建具塗装 (PAINTING FOR WOODEN DOOR, WINDOW AND FRAME)	SM	131					
5	木製建具金物 (HARDWARE)	LOT	1					
6	ステンレスプレート (STAINLESS STEEL PLATE)	LM	24					
	(9)-5 小 計 (SUB TOTAL)							

STUDIO

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
	(9)-5-1 木製建具金物							
	(HARD WARE)							
1	丁番 (HINGE)	EA	87					
2	ラバトリーヒンジ (LABATORY HINGE)	SET	4					
3	ドアチェック (DOOR CLOSER)	EA	10					
4	シリンダー彫込み錠 (CYLINDER MORTISE LOCK)	EA	8					
5	シリンダー彫込みラッチ用 徳錠式本締り錠 (CYLINDER MORTISE DEADLOCK)	EA	1					
6	面付けスライドボルト (RIM SLIDE BOLT)	EA	4					
7	開き窓用引掛金物 (CASEMENT FASTENER)	EA	17					
8	開き窓用あおり止め (CASEMENT OPERATOR & HOLDER)	EA	17					
9	カムラッチハンドル (CAM LATCH HANDLE)	EA	6					

STUDIO

	ITEM	UNIT	QUANTITY	LOCAL (RUPEE) UNIT PRICE	LOCAL (RUPEE) AMOUNT	JAPAN (YEN) UNIT PRICE	JAPAN (YEN) AMOUNT	(YEN) TOTAL
10	あおり止め ナ当り (DOORSTOP & HOOK HOLDER)	EA	11					
11	ナ 当 り (DOOR HOOK & BUMPER)	EA	4					
12	握 り 玉 (KNOB)	EA	7					
13	押 し 板 (PUSH PLATE)	EA	4					
14	ドアハンドル (DOOR HANDLE) SUS	EA	1					
15	クレセント (CRESCENT SASH LOCK)	EA	1					
16	取付ナ 用 (INSULATION COST)	EA	34					
	(9)-5-1 小 計 SUB TOTAL							