## AFRICAN DEVELOPMENT BANK GOVERNMENT OF MAURITIUS

CONTRACT
FOR
CONSTRUCTION
OF
BEAU BASSIN - PORT LOUIS LINK ROAD

APPENDIX TO CONFIDENTIAL VOLUME

PRICED BILLS OF QUANTITIES (ENGINEER'S ESTIMATE)

SEPTEMBER 1980



Japan International Cooperation Agency



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SEPTEMBER 1980

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## BILLS OF QUANTITIES

## SUMMARY

		Amount
		Rupees Cts
BILL "A"	GENERAL ITEMS	36,641,880.00
BILL "B"	DEMOLITION AND CLEARANCE WORKS	1,662,350.00
BILL "C"	EARTHWORKS	49,798,720.00
BILL "D"	STRUCTURAL CONCRETE AND CONCRETE ANCILLARIES WORKS	90,461,831.00
BILL "E"	PAVEMENTS AND ROAD ANCILLARIES WORKS	83,777,374.00
BILL "F"	STORM DRAINAGE WORKS	24,078,933.00
BILL "G"	MASONRY WORKS	12,402,855.00
BILL "H"	LIGHTING INSTALLATION WORKS	3,589,053.00
BILL "I"	DAYWORK SCHEDULES	4,002,575.00
Total Cari	ried to Form of Tender	306,415,571.00

Item	Description	Unit	Q'ty	Rate	Anount	
ilo,	pescription	0112		<b>-</b>	Rupees	ents
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	BIPI' "Y"				1.	
	GENERAL ITEMS					
	To be read in conjunction with					İ
	PART 1 of the Specification					
01.	Contractual Requirements					
. 01	Allow for the Performance Bond					
O.	required in accordance with	Lump		·	600,000	00
	Clause 10 of the Conditions of Contract	sum		•	000,000	00
	Concrace			<u> </u>		
02	Allow for the Insurance of the	e est egit				
	Works etc. required in accordance with Clause 21 of the Conditions				1,100,000	00
	of Contract	Sun			:	
			-	·		
03	Allow for the Third Party Insurance required in accordance	Lump				
	with Clause 23 of the Conditions				600,000	100
٠.	of Contract					ŀ
04	Allow for the Insurance in					
0.	respect of Accident or Injury to	Lump			170,000	00
	Workmen required in accordance	sum			170,000	00
•	with Clause 24 of the Conditions of Contract					
						.
92.	Specific Requirements		† ·			
01	Allow for offices and attendance		·			
	for the Engineer in accordance	Lump			250,000	00
	with sub-clause 109.01 of the Specification	sum				
02	Allow for the installation of			1		
	telephone for the Engineer in accordance with sub-clause 109.0	Lump sum			3,000	00
,	of the Specification					
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03	Allow for employing and paying to the Engineer's junior staff in accordance with sub-clause 109.03 of the Specification - Laboratory Technicians	Man month	36	1,380	49,680	00
04	As Item A02.03 but for Typists	Man month	36	770	27,720	00
05	As Item A02.03 but for Clerks	Man month	36	770	27,720	00
06	As Item A02.03 but for Levellers	Man month	. 72	690	49,680	00
07	As Item A02.03 but for Chainmen	Man month	72	540	38,880	00
08	As Item A02.03 but for Common- Labourers	Man month	108	540	58,320	00
09	As Item A02.03 but for Watchmen	Man month	72	540	38,880	00
10	Allow for the transport for the Engineer in accordance with sub- clause 109.04	Vehicl month	. 72	10,000	720,000	00
11	Excess over 2,000 km per month per Vehicles in connection with Pay Item A02.10	km	12,000	4	48,000	00
12	Allow for the field testing laboratory in accordance with Part 10 and Clause 110 of the Specification	Lump sum	-		500,000	00
13	Allow for the Bridge Loading Test for specific bridges in accordance with Clause 130 of the Specification	Lump sum			200,000	00
14	Prime Cost Basis					
	Allow for the supervision cost of the Engineer in accordance with Clause 2 of Conditions of Contract	Lump sum	14		6,000,000	00
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Item Description		Unit	Q'ty	Rate	Amount	
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Method-related Char	ges					
01 Allow for supply, e			·			
maintenance and rem necessary offices,						
welfare and other a for the Contractor	ccommodation	Lump sum			400,000	00
employees throughou	it the duratio	4 1				
of the Contract and labour costs not in						
where in the Contra						
02 Allow for all tempo						
roads and all other works, construction			,·			
charges of any natu	re whatsoever				1,500,000	o(
required for the co	t included	sum	·	_		
elsewhere in the Co	ontract Prices					
03 Allow for the setti			•			
works including all struments, tools ar		Lump			200,000	١,
in accordance with the Conditions of C	and the second s	sum			200,000	١,,
Clause 115 of the S		ľ				
04 Allow for the super						
the works in accord					e.	
Contract not include	ded elsewhere	Lump			5,000,000	0
in the Contract Pri	ices.	sum				
05 Allow for protecting including watchmen.		Lump	* . :		50.000	
and all other safet	ty precautions				50,000	ľ
06 Allow for the publi	ic deviations			1		
traffic control and for Diversion Road		Lump	]			_
in accordance with	sub-clause	sum			200,000	ľ
124.03 of the Spec	ification					
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tém		Unit	'ty	Kate	Amount	
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07	As Item A03.06 but for public deviations traffic control and	Lump			300,000	00
Λœ	signs, etc. for any other diversion road Allow for the support and pro-	SUM	·			
Vo	tection of the existing utilities and services in accordance with Clause 122 of the Specification	Lump sum			100,000	00
09	Provisional Sum Allow a Provisional Sum of the modification and protection of the existing utilities and services in accordance with Clause 122 of the Specification to be expended as directed by the Engineer	Lump sum			100,000	00
10	Allow for the Progress Photo- graphs in accordance with sub- clause 117.02 of the Specifica- tion	Lump sum			10,000	00
11	Allow for maintenance of the Works for twelve months after the Engineer's certified Dates of Completion	Lump sum			300,000	00
12	Provisional Sum Provide for additional and contigent works as directed by the Engineer.	Lump sum			7,000,000	00
13	Provisional Sum Provide for payments under Clause 70 of the Conditions of Contract, Increase and Decrease of Costs.	Lump sum			11,000,000	00
14	The Contractor shall describe hereunder (inserting any relevant Clause Number) and price any other Works, obligations or things which may be referred to					
,	in the Conditions of Contract or Specification or which he may consider have been omitted from the Bills of Quantities and for					
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	which he desires to enter a						
	separate charge. (The charge to						
	be carried directly to the 'Amount' column). If no separate						
٠	charge is made hereunder then						
	the rates in the Bills of Quanti- ties shall be held as covering						
	expenses for such works, obliga-	<u> </u>					
	tions or things.	ĺ					
	Clause No. Description						
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	BILL "B"				·	
	DEMOLITION AND CLEARANCE WORKS					İ
	To be read in conjunction with					
	PART 2 of the Specifications					
01.	Clearance and Grubbing	ha	5.5	33,000	181,500	00
302.	Removal of Structures and				[	
	Obstruction	Lump				
01	Bui Idings	sum		-	298,000	00
02	Concrete structures	Lump sum			342,700	00
U.S	Existing metal bridge structures	t	350	1,549	542,150	00
		Lymn			298,000	60
04	Existing road pavements and kerbs	sum			.,,,,,,,	
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	BILL "C"					
	EARTHWORKS					
	To be read in conjunction with PART 3 of the Specifications					
ó1.	Roadway Excavation					
01	Common excavation	m3	732,000	40	29,280,000	þ
02	Rock excavation	m3	22,135	298	6,596,230	C
03	Replacing sub-grade in cut section with selected materials	m3	20,000	117	2,340,000	•
04	Replacing foundation in fill section with selected materials	m3	20,000	117	2,340,000	(
02.	Structure Excavation	• •				
01	Common excavation in box culverts and wing walls	m3	9,015	56	504,840	
02	Rock excavation in box culverts and wing Walls	m3	100	153	15,300	
03	Common excavation in piers and abutments of bridgeworks	m3	18,850	114	2,148,900	ا ا
04	Rock excavation in piers and abutments of bridgeworks	m 3	7,100	312	2,215,200	
05	Supply and complete in place of selected backfill materials /	m3	35,200	117	4,118,400	,
06	Supply and complete in place of selected filter materials	m3	2,030	117	237,510	
07	Supply and complete in place of selected bedding materials	m3	20	117	2,340	}
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No.	Description	Onic	5/ U <b>y</b>	Idiec	kupées
	BILP "D"				
			1 1 10	·	
	STRUCTURAL CONCRETE AND CONCRETE ANCILLARIES WORKS				
	To be read in conjunction with PART 4 of the Specifications	. : .			
•					
DO1.	Concrete complete in place, supply of materials, labour, tools and equipment to mix and place				
	in site				
01	Structural Concrete, Grade 40	m3	4,700	1,232	5,790,400
02	ditto Grade 30	m3	3,480	1,144	3,981,120
03	ditto Grade 25	m3	14,500	1,095	15,877,500
04	ditto Grade 15	m3	3,800	958	3,640,400
DO2.	Supply and fixing in place of Reinforcing steel				
01	Mild steel bars, not exceeding ø16 mm	ŧ	1.2	7,658	9,190
02	Mild steel bars, \$20 mm or greater	t	0.5	7,035	3,51
03	High yield steel bars, not exceeding Ø16 mm	t	1,180	8,135	9,599,30
04	High yield steel bars, \$20 mm or greater	t	730	7,718	5,634,14
					,
D <b>03</b> .	Supply, fixing in place with necessary accessories, stressing				
	up to required tension and grouting in bridge girders of high tensile prestressing steel				
	cables				
01	ø 5 mm prestressing wire	kg	14,420	134	1,932,28
	TOTAL OF PAGE CARRIED TO COLLECTION				46,467,84

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No.					kuj ces	'ent
02	ø 7 mm prestressing Wire	kg	77,200	53	4,091,600	00
03	Ø12.5 mm prestressing strand	kg	178,300	53	9,449,900	00
1.					*	
D04.	Supply, preparation, erection and removal Formworks					
01	rair finish plane formworks for					
	walls, piers, culverts and abutments, type A	m2	26,270	247	6,488,690	00
02	Fair finish curved formworks					
	for walls, piers, abutments and culverts, type B	m2	1,240	338	419,120	00
03	Fair finish formworks for supported beams and slabs, type C	m2	14,000	296	4,144,000	00
04	Fair finish formworks for prestressed post-tensioned concrete beams cast in yard, type D	m2	23,325	190	4,431,750	00
05	Plane rough finish formworks for foundation in touch with earth, type E	m2	5,130	111	569,430	00
06	Supply, preparation and erection of voids \$700 mm for supported voided slabs, type F	m	530	998	528,940	00
07	ditto, but for \$850 mm, type G	m , ,	130	1,192		
08	ditto, but for \$900 mm, type H	10	360	1,282	461,520	00
DO5.	Supply and fixing in place of					
01	Bridge Bearing Pad Rubber Bearing, type A	nr	8	3,009	24,072	00
02	e ditto type B	nr	277	3,844	1,064,788	00
02		nr	104			
04		nr	37	3,665	135,605	
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ltem No.	Description	Unit	¿'ty	kate	Amount.		
					Rupees	ents	
05	đitto type E	nr	105	2,264	237,720	00	
06	ditto type F	nr	134	1,609	215,606	00	
06.	Supply and fixing of Metal Parapet						
01	Type Pl Vehicle Parapet	ZO.	1,195	1,996	2,385,220	00	
02	Type P2 Vehicle Pedestrian Parapet	ħ	1,605	1,996	3,203,580	00	
03	Type P4 Pedestrian Parapet	m	185	1,594	294,890	00	
07.	Expansion Joint for Bridge and Water-tight Joint for Box Culver			· · · · · · · · · · · · · · · · · · ·			
01	Expansion Joint for Bridge, type A	m	445	135	60,075	00	
02	ditto type B	m	390	135	52,650	00	
03	Expansion Joint for Aquaduct, type C	10	10	135	1,350	00	
04	Water-tight Joint for Box type D	W	245	135	33,075	00	
x08 <b>.</b>	Transport to the site, lifting and fixing of prestressed Post Tensioned Beam on the top of bearing						
01	Beams with length not exceeding 25 meters	nr	37	21,307	788,359	00	
02	Beams with length of 25 meters or greater	nr	141	26,671	3,760,611	00	
D09.	Supply and complete in place of Precast Concrete Block Footway for Bridge	m2	905	137	123,985	00	
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Item No	Description	Unit	Q'ty	Rate	Amount		
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0.	Supply and fixing of Bridge Drain					•	
01	Catch Basin, type A	nr	31	1,758	54,498	3 00	
02	ditto type B	nr.	21	2,235	46,935	00	
03	ditto type C	nr	21	1,266	26,586	5 00	
04	ditto type C'	nr	6	1,266	7,590	5 00	
05	Lead Pipe, PVC, Ø125	m	420	134	56,280	00	
96	ditto ø200	m	110	201	22,110	0 00	
11.	Installation of Utility Lines on Bridges						
O.	PVC pipe for telephone cable,						
UI	ø150	m	285	146	41,61	0 00	
02	ditto ø 80	Tit.	90	58	5,22	0 00	
03	Steel water pipe, Ø90	n ·	90	116	10,44	0 00	
04	Steel sewerage pipe, \$380	m	95	815	77,42	5 00	
05	Provisional Sum Provide for additional and contingent works as directed by the Employer in accordance with Pay Item Dll	Lump sum			25,00	0 00	
•					1.		
12,	Supply and complete in place at Nameplate	nr	4	6,295	25,18	00	
13.	Supply and complete in place of Score Protection Riprap covered	m2	1,385	8	123,26	55 00	
	by Concrete						
14.	Supply and complete in place of Water-Proof Mortar for Aquaduct	m2	275	2'	9 7,97	75 00	
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	PAVEMENTS AND ROAD ANCILLARIES WORKS			• [		
		12	]	,	i ·	
E01.	Supply, laying and compaction of Graded Stone Subbase Course or					
	Base Course after compaction on			*		
	prepared subgrade of road				. *	
01	Graded Stone Subbase Course,					
	30 cm thick for main road	m2	165,000	62	10,230,000	00
:	carriageway				·	
02	Graded Stone Subbase Course,					
	20 cm thick for access road	m2	17,315	41	709,915	00
	carriageway			-		
. 03	Graded Stone Base Course, 15 cm					
	thick for shoulder of main road	m2	47,335	31	1,467,385	00
	carriageway of approach road and frontage road					
	and frontage road					
04	Graded Stone Base Course, 10 cm			20	130 500	
	thick for footway of access road	m2	6,925	20	138,500	100
	·				•	
						ļ.
E02.	Supply and spray of Bituminous		1			
	Prime and Tack Coat	•			Ī	
01	Bituminous Prime Coat,at the	·	,			
	rate of 1.0 kg to the square	t	215	3,799	816,785	00
	meter of prepared subbase course of roads					
	or roads	-	1			
02	Bituminous Tack Coat at the rate	`				
	of 0.6 kg to the square meter of	t	200	3,799	759,800	00
	prepared base course of roads					1
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.03.	Supply, laying and compaction of					
	Bituminous Treated Base Course, 10 cm thick after compaction on					
	prepared subbase course of roads	m2	173,035	140	24,224,900	00
	for the carriageway of main road	14				
	and access road					
04.	Supply, preparation, spreading		1.00		·	
	and compaction of Hot-mix Bitumi- nous Concrete Surface Course			· · · · · · · · · · · · · · · · · · ·		
01	Asphalt Binder Course, 5 cm thick after compaction applied	: :				
	on prepared base course of	m2	154,740	74	11,450,760	00
	main road carriageway		1			
0.2	Asphalt Wearing Course, 5 cm					
UZ	thick after compaction applied					
	on prepared asphalt binder				1	
	course of main road carriageway prepared base course of shoulder		205 040	70	15,993,120	
	for main road, prepared base	m2	205,040		113,993,120	°°.
	course of approach road for				1	
	overbridge and prepared bitumi- nous treated base course of					
	access road carriageway	•			·	
	Asphalt Wearing Course, 8 cm					1
. 03	thick applied on prepared con-	m2	10,590	126	1.334.340	00
	crete deck of main road bridge	IRZ	10,570			
	and over bridge					
04	Asphalt Wearing Course, 4 cm					
	thick after compaction applied on prepared base course of	m2	6,950	64	444,800	00
	footway of access road					1,
					e .	'
05	Asphalt Wearing Course, 3 cm thick applied on prepared		150	49	7,350	00
	concrete deck of pedestrian	m2	150	,,,		
	bridge	· .				
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E <b>05.</b>	Increase or reduction tonnage of Bitumen by varying the rate of				
	apply against the upper limit of content as directed by the En- gineer in accordance with Pay Items E03, E04 and E05				
01	Bituminous content, Prime Coat	ŧ	2.0	2,831	5,662 00
02	Bituminous content, Tack Coat material	t	2.0	2,831	5,662 00
03	Bituminous Content of Hot-mix Bituminous Concrete	t	2.0	2,831	5,662 00.
E06.	Turfing and Seeding complete in				
	place	-3	58,345	40	2,333,800 00
	Turfing Seeding	m2 m2	65,730	44	
E07.	Supply and installation in place of Guardrail for embankment	m	2,400	1,996	4,790,400 00
E08.	Precast Concrete Kerbs complete in place				
01	Precast Concrete Kerb, type A	m	13,605	275	3,741,375 00
1	Precast Concrete Kerb, type B	m	4,450	320	1,424,000 00
03	Precast Concrete Kerb for bridge type C	m	680	302	205,360 00
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09.	Road Marking complete in place					
01	Road marking, common	m2	6,600	29	191;400	00
02	Uni-directional Reflecting Road Stud "Cat's Eye"	nr	40	141	5,640	00
03	Road Stud "Chatter Bar"	nr	180	111	19,980	00
10.	Permanent Traffic Sign complete in place					
01	Permanent Traffic Sign, type A	nr	109	3,337	363,733	00
02		nr	17	1,341	22,797	00
03		nr	32	6,004		00
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	BILL "F"						
	STORM DRAINAGE WORKS			•			
	To be read in conjunction with PART 6 of the Specifications				1		
r01.	Ditch, Channel and Drain Pipe complete in place						
01	Earthen Excavated Ditch type Ds-ED	m	4,870	59	287,330	00	
02	Rock Surfaced Ditch						
	type Ds-RS	m	14,255		10,192,325	1	
03	Rolled Gutter type Ds-RG	n	1,825	238	434,350	00	
04	Precast Concrete Ditch type Ds-Pu(A)	m.,	12,040	320	3,852,800	00	
. 05	ditto Ds-Pu(Bl)	· pi	480	551	264,480	00	
06	ditto Ds-Pu(82)	, m	594	648	384,912	00	
07	ditto Ds-Pu(B3)	מ	280	700	196,000	00	
- 08	Concrete Ditch, type Ds-U(A)	m	25	759	18,975	00	
- 09	đitto Ds(C)	m	25	1,184	29,600	00	
10	ditto Ds(D)	m`	250	2,153	538,250	00	
		IU.	150	2,890	433,500	00	
12		m	5	2,048	10,240	00	
13		TD.	120	1,594	191,280	00	
14		TO)	30	2,659	·	1	
15		M	170	1,348			
		m	30	2,011			
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tem	escription	•	Unit	Q'ty	Rate	Amount	ort o
No.						Rupees	ents
17 Concrete	e Ditch, with co type Ds-U(F		m	120	3,061	367,320	00
18 dit	to Ds-L(A	<b>.</b> }	m	<b>5</b> 5 <sub>.</sub>	588	32,340	00
19 dit	to Ds-L(B	B)	m	60	797	47,820	00
20 dit	to Ds-L(C	<b>;</b> )	m.	370	1,043	385,910	00
21 dit	to Ds-L(	<b>)</b> )	m	170	1,400	238,000	00
22 Concret	e Ditch, type Dv	<i>ι</i> -υ	m	105	975	102,375	00
23 Shoulde	r Inlet, type Si		nr	215	566	121,690	00
24 Relocat	ed Waterway		m	60	268	16,080	00
25 Concret in Box	e Cover for side culvert	e ditch	m	195	588	114,660	00
				•			
02. Pipe Cu	lvert complete	in place		- ,			
01 Precast	type C-P(A	) ø152	m	65	439	28,535	00
02 dit	.to	ø304	m	125	692	86,500	00
o3 dit	to	ø380	m	240	797	191,280	00
04 dit	;to	ø457	m .	. 15	931	13,965	00
os dit	:to	¢762	16	410	1,609	659,690	00
06 dit	tto	ø1066	m	50	2,816	140,800	00
07 dit	tto type C-P(B	) ø304	m	160	1,288	206,080	00
08 di	tto	ø380	m	460	1,616	743,360	00
09 di	tto	ø457	m	70.	1,869	130,830	00
10 di	tto	ø533	m	30	2,153	64,590	00
11 di	tto type C-P(C	e) ø762	In	115	3,173	364, 895	00
12 di	ŧto	ø1066	m	135	5,334	720,090	00
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Description	Unit	Ω'ty	Rate	Amount Rupees ent
13 Precast concrete pipe,				
type C-P(TWIN)	ø1066 m	95	5,680	539,600 00
14 ditto type C-P(C) \$60	09 m	25	2,632	65,800 00
15 ditto \$60	85 m	10	2,854	28,540 00
16 ditto \$9	14 m	20	4,377	87,540 00
17 ditto type C-P(D) \$70	62 m	335	879	294,465 00
18 Miscellaneous, PVC pipe, ø	179 m	. 25	214	5,350 00
3. Head wall for pipe culvert complete in place				
01 Type Hw- (A)	nr	41	1,996	81,836 00
02 Hw- (B)	nr	1	1,981	1,981 00
03 Hw-(C1)	nr	1	767	767 00
04 1iw- (C2)	nr	1	916	916 00
05 Hw- (C3)	nr	3	938	2,814 00
4. Catch Basin complete in pl	ace			
01 Type Dc- (A1)	nr	30	2,056	
02 Dc- (Λ2)	nr	14	2,696	<i>J</i>
03 Dc-(A3)	nr	11	3,322	36,542 00
04 Dc-(A4)	nr	6	4,447	
05 Dc- (A5)	nr	1	5,364	
06 Dc-(A6)	nr	2	6,340	
07 Dc-(A7)	nr	1	16,792	
08 Dc-(B1)	nr	22	1,877	
09 Dc-(B2)	nr	2	2,309	4,618 00
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10	Туре Ос~(D)	nr	18	5,773	103,914	00
11	Dc- (K)	nr	3	5,662	16,986	00
12	Dc-(N1)	nr	1	12,821	12,821	00
13	Dc- (N2)	nr	1	14,065	14,065	00
14	Dc- (N3)	nr	5	15,310	76,550	00
. 15	Dc- (C)	nr	28	2,577	72,156	00
16	Dc-(E)	nr	20	2,533	50,660	00
17	Dc-(F)	nr i	5	2,376	11,880	00
18	Dc-(G)	nr	1	923	923	00
19	Dc-(H)	nr	1	7,621	7,621	00
20	Dc-(I)	nr	1	2,495	2,495	00
21	Dc-(J1)	nr	1	1,668	1,668	00
22	Dc-(J2)	nr	1	2,220	2,220	00
23	Dc-(J3)	pr	4	7,986	31,944	00
24	Dc-(L1)	nr	2	6,809	13,618	00
25	Dc- (L2)	nr	1	4,097	.4,097	00
26	Dc-(L3)	nr	2	11,160	22,320	00
27	Dc- (M1)	nr	1	4,172	4,172	00
28	Dc- (M2)	nr.	1	6,943	6,943	00
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No.	Description	Unic	Q ty	Mile	Rupèes	ents
o5.	Inlet or Outlet complete in place					
01	Inlet or Outlet for pipe culvert \$762 type A	nr	8	4,620	36,960	00
02	ditto type B	nr	13	5,020	65,260	00
03	ditto type C H=1.40m	nr	2	9,908	19,816	00
<b>04</b>	Inlet for pipe culvert \$762 type C H=1.60m	nr	1	11,747	11,747	00
05	ditto type C H=2.20m	nr	2	18,018	36,036	00
06	Inlet or outlet for pipe culvert \$1066 type A	nr	2	6,739	13,478	00
07	ditto type B	nr	3	7,073	21,219	00
08	Inlet for pipe culvert ø1066 type C H=1.60m	nr	1	12,507	12,507	00
09	Inlet or Outlet for pipe culvert \$1066 type C H=1.90m	nr	2	15,703	31,406	00
10	Inlet for pipe culvert (TWEN) ø1066	nr	2	10,474	20,948	00
11	Outlet for pipe culvert (TWIN) ø1066	nr	2	9,693	19,386	00
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	TOTAL OF PAGE CARRIED TO COLLECTION				24,078,933	00
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		<u> </u>			Amount	
Item No.	Description	Unit	Q'ty	Rate	·1	ents
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	BILL "G"					
1	MASONRY WORKS		-			
	To be read in conjunction with PART 7 of the Specifications	: 1				
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601.	Grouted Rubble Masonry complete					
	in place					
01	Grouted rubble masonry for embankment area, type E	m2	6,170	745	4,596,650	00
02	ditto, but for cutting area, type C	m2	7,220	745	5,378,900	00
03	ditto, but for bridge works, type P	m2	2,045	745	1,523,525	00
602.	Concrete Base for Grouted Rubble Masonry complete in place					
01	Concrete base for type E masonry	ın	1,675	238	398,650	00
				238		
	ditto, but for type C masonry	m	1,840			1 1
03	ditto, but for type P masonry	m	235	286	67,210	00
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	TOTAL OF PAGE CARRIED TO COLLECTION				12,402,855	00

1 tem	BILL "G"  COLLECTION SHEET  TOTAL OF PAGE BQ 27	Unit		Rate	Amount Rupees 12,402,855	oo.
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	TOTAL OF PAGE BQ 27				12,402,855	
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No.	beset thereat	ORTE	ν (γ		Rupees	ents	
	BILL "H"						
- 1 - 12 d							
	LIGHTING INSTALLATION WORKS						
	To be read in conjunction with		1 N				
	PART 8 of the Specifications						
5. t		:					
01.	Manufacture, test, supply and deliver to Site Lighting System			,			
	for Point Aux Sable/Coromandel			•	1,		
	Interchange					[	
01	Outdoor standing metal enclosed	:					
•	cubicles including the ancillary works, complete in place	nr	1	412,432	412,432	00	
		-					
02	Lighting poles including lan- terns, lamps and the ancillary						
	works, complete in place,	nŗ	10	27,341	273,410	00	
	PB-12-700W HP 700W		. "				
03	ditto, but for PB-12-700W	nr	5	26,402	132,010	00	
	HF 400 W						
04	ditto, but for PB-10-700W	nr	15	23,244	348,660	00	
	HF 400						
05	Cables in duct including the						
	ancillary works, complete in place, SC-VVR 3.5 - 2C + 1C	m	25	70	1,750	00	
			20	78	1,560		
06	ditto 3.5 - 3C + 1C	m	20	/8			
07	ditto 5.5 - 3C + 1C	m	20	92	1,840	00	
08	ditto 5.5 - 4C + 1C	m	105	104	10,920	00	
	ditto 8 - 4C + 1C		5	120	600	00	
09	ditto 8 - 4C + 1C	m	,				
10	ditto 14 4C + 1C	ta :.	35	168	5,880	00	
11	Cables buried underground						
	including the ancillary works,						
	complete in place, SC-WR 3.5 - 2C + 1C	m .	480	65	31,200	00	
		:					
	TOTAL OF PAGE						
u di Kejar	CARRIED TO COLLECTION				1,220,262	00	
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Item	Description	Unit	Ω'ty	Rate	Amount	-
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12	ditto 3.5 - 3c + 1C	m	455	73	33,215	<b>00</b>
13	ditto 3.5 - 4c + 1c	m	25	92	2,300	00
14	ditto 5.5 - 3C + 1C	m	95	86	8,170	00
15	ditto 5.5 - 4C + 1C	m	225	95	21,375	00
16	ditto 8 - 4C + 1C	IŲ	145	113	16,385	00
17	ditto 14 - 4C + 1C	en	265	157	41,605	00
18	Copper wire in duct including the ancillary works, complete in place, A-3.5	kg	2	73	146	00
19	ditto, but buried underground	kg	16	68	1,088	00
20	Earthing E500 ORM including the ancillary works, complete in place	nr	5	2,637	13,185	00
		`.				
102.	Manufacture, test, supply and deliver to Site bighting System for Motorway Junction					
01	Outdoor standing metal enclosed cubicles including the ancillary works, complete in place	nr	1	514,973	514,973	00
02	Lighting poles including lan- terns, lamps and the ancillary works, complete in place, PB-12-700W HF 700W	nr	16	27,341	437,456	00
03	ditto, but for PB-12-700W	nr	8	26,402	211,216	00
04	ditto, but for PB-10-700W	nr	26	23,244	604,344	00
05	ditto, but for Hr 250W	nr	1	3,233	3,233	00
06	Cables in duct including the ancillary works, complete in place, SC-VVR 3.5 - 2C + 1C	m	95	70	6,650	00
	TOTAL OF PAGE CARRIED TO COLLECTION				1,915,341	00

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07	ditto	3.5	- 3C +	ıc	TÚ.	45	78	3,510	00
08	ditto	3.5	- 4c +	1C	m	55	92	5,060	00
09	ditto	8	- 3C +	ic	m	30	110	3,300	00
10	ditto	8	- 4c +	1C	m	64	120	7,680	00
11	ditto	14	- 4C +	1C	m ·	145	168	24,360	00
12	ditto	22	- 4c +	ic	IN	95	222	21,090	00
13	Cables buried including the	e ancil	lary wor		·				
	complete in p		- 2C +	lC :	m	580	65	37,700	00
14	ditto	3.5	- 3C +	1C	គ	145	73	10,585	00
15	ditto	3.5	- 4c +	1c	m	30	92	2,760	00
16	ditto	5.5	- 2C +	1C	m	40	. 73	2,920	00
17	ditto	5,5	- 3C +	1C	m	35	86	3,010	00 -
18	ditto	8	- 2C +	1C	m	75	75	5,625	00
19	ditto	8	- 3C +	1C	m ·	270	. 105	28,350	00
20	ditto	8	- 4c +	1C	in	350	113	39,550	00
21	ditto	14	- 2C +	1C	m,	40	119	4,760	00
22	ditto'	14	- 3C +	1C	m	40	. 140	5,600	00
23	ditto	14	- 4C +	1C	IU.	1,100	157	172,700	00
24	ditto	22	- 4C +	1C	m	260	219	56,940	00
25	Copper wire in ancillary won place, A3.5				kg	4	73	292	00
26		ut buri	ed' unde	er-	kg	27	68	1,836	00
		:	at e	1. 1.					
	TOTAL OF PA		rión					437,628	00

Item			Unit Q'ty		Amount	
No.	Description	UNIT	γ εγ	Rate	Rupees	cents
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27	Earthing E500 OHM including the ancillary works, complete in					
	place	nr	6	2,637	15,822	00
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Item	Description	Unit	Q'ty	Katė	Amount	
No.	Description .				Rupees	ents
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	BILL "H"					
	COLLECTION SHEET					
	TOTAL OF PAGE BQ 29				1,220,262	00
	TOTAL OF PAGE BQ 30			·	1,915,341	00
	TOTAL OF PAGE BQ 31				437,628	00
	TOTAL OF PAGE BQ 32				15,822	00
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Item		Unit	Q'ty	Rate	Amount	
No.	Description	Unit	Q cy	Mice	Rupees	ent
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	BILL "I"		4.0			
	DAYWORK SCHEDULES					
			-			
	To be read in conjunction with Clause 52 (4) of the Conditions	.*	.*			
	of Contract.					
-	The whole of this Bill is pro- visional. The following item			• •		·
	are for Labour, Materials and					·
	Plant available on site during			•		
	the execution of the Contract Works.					
	NOTAS.		. • !			
01.	Plant					
	The rates inserted herein are to	:		ļ		
	include all operational mainte-	·			•	ļ
	nance costs including fuel, oil,			1		
	grease, spare parts, repairs, any extra costs of overtime and					
	all superintendence, overheads					
	and profit. The rates shall		,			
	also include for all travelling time and costs for the plant,					
	operators, etc., to and from and				ļ	
	about the site. Idle time where			]		
•	due solely to the nature of the dayworks or the authorized		. ·			
	method of procedure will be paid	1.	·			
	for at 50% of the rates entered			}		
	herein. Idle time due to break- downs, inefficiency or unsuit-					
. "	ability or incompleteness of the	<u> </u>				-
	plant shall not be paid.		:		-	
	Bulldozer with ripper,		·			
θI	34t, 320HP class	ħ	100	626	62,600	00
02	ditto 24t, 220HP class	h	100	445	44,500	UU
03	ditto 17t, 155HP class	h	100	294	29,400	00
04	ditto 12t, 110HP class	h	100	211	21,100	00
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Item	nancii i in	Unit	Q'ty	Rate	Amoùnt	
No.	Description	Ollic	ζ ()		Rupees	ents
			•			
05	Dozer shovel <sub>3</sub> 2.2m, 21t, 200HP class	h	100	377	37,700	00
06	ditto 1.8m <sup>3</sup> , 18t, 160HP "	h	100	324	32,400	00
07	ditto 1.6m <sup>3</sup> , 15t. 135HP "	h	100	256	25,600	00
08	Wheel loader, 2.3m <sup>3</sup> , 12.5t, 152HP "	h	100	362	36,200	00
09	ditto 1.7m <sup>3</sup> , 9.5t, 105HP "	h	100	264	26,400	00
10	Motor grader,					
	W=4.0m, 13t, 165HP "	h	100	279	27,900	00
11	ditto W≃3.7m, 11t, 125HP "	h	100	211	21,100	00
12	Back hoe, 1.8m <sup>3</sup> , 40t, 200HP "	h	100	679	67,900	00
13	ditto 1.5m <sup>3</sup> , 25t, 150HP "	h,	100	437	43,700	00
14	ditto 1.0m <sup>3</sup> , 20t, 120HP "	h	100	332	33,200	00
15	ditto 0.5m <sup>3</sup> , 12t, 90HP "	h	100	226	22,600	00
16	Wheel crane, 20t capacity, 23t, 180HP "	ħ	100	377	37,700	00
17	ditto , 16t cpapeity, 20t, 175HP "	h	100	332	33,200	00
18	ditto , 5t capacity, _/ 15t, 125HP "	ħ	100	143	14,300	00
19	Macadam roller, 15t class	h	100	143	14,300	00
20	ditto , 10t "	h	100	98	9,800	00
21	Tire roller, 20t "	, h	100	135	13,500	00
22	Asphalt finisher, W=4.5m class	h E	100	279	27,900	00
23	ditto , W=3.6m "	h	100	151	15,100	00
24	Asphalt sprayer, 30 %/min. class	h	100	4	400	00
	TOTAL OF PAGE CARRIED TO COLLECTION				540,900	00

Item		19	Ç'ty	kat€	Amount	
No.	Description	Unit	Ϋ́τΥ	ro (t	Rupees	ents
:	1					
25	Concrete mixer, 1.5m <sup>3</sup> class	h	100	-143	•	
.26	ditto , 0.75m <sup>3</sup> "	h	100	90	9,000	00
27	Truck mixer, 3.0 m <sup>3</sup> "	ħ	100	166	16,600	00
28	Portable air compressor, 10.5 m <sup>3</sup> /min class	h	100	98	9,800	00
29	ditto 7.5 "	h	100	75	7,500	00
30	Concrete pump truck, 3/min. "	h	100	302	30,200	00
31	Generator 75KVA class	ħ	100	98	9,800	00
32	Dump truck, 20t, 280HP class	h	100	317	31,700	00
. 33	ditto , 15t, 230HP "	. <b>h</b>	100	203	20,300	00
34	ditto , 11t, 210HP "	h	100	98	9,800	00
35	ditto , 8t, 200HP "	h	100	67	6,700	00
36	ditto , 4t, 135HP "	h	100	30	3,000	00
37	Truck, 11t, 260HP "	h	100	279	27,900	00
38	ditto, 8t, 194HP "	h	100	188	18,800	00
39	ditto, 6t, 130HP "	h	100	143	14,300	00
40	Trailer, 35t class	h	100	1,041	104,100	00
41	ditto , 20t "	h.	. 100	505	50,500	00
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Item		Unit	Q'ty	Rate	Amount	
No.	Description	Unit	Q ty	Rate	Rupees	ents
02.	Materials					: .*
	The materials are to be all to the qualities and descriptions stated in the Specification.					
	The rates inserted herein are to include for delivery to the site including all loading, transport, unloading, storage, doublehandl-				• :	
-1 <u>.</u> 1	ing, storage, etc., together with all overheads and profit.			, ·		
01	Materials for Pay Item CO2.05	m3	2,000	102	204,000	00
02	Materials for Pay Item CO2.06	m3	100	102	10,200	00
03	Materials for Pay Item CO2.07	m3	100	102	10,200	00
04	Coarse aggregate for Pay Item D01.01	t	150	102	15,300	00
05	Fine aggregate for Pay Item DO1.02	ŧ	150	147	22,050	00
06	Mild steel bar for Pay Item D02.01	t	<u>1</u>	6,077	6,077	00
07	Mild steel bar for Pay Item DO2.02	t	1	5,473	5,473	00.
08	High yield steel bar for Pay Item DO2.03	ŧ	10	6,530	65,300	00
09	High yield steel bar for Pay Item DO2.04	t	5	6,145	30,729	00
	Prestressing wire for Pay Item DO3.01	kg	500	27	13,500	00
11	Prestressing wire for Pay Item D03.02	kg	500	27	13,500	00
12	Prestressing strand for Pay Item D03.03	kg	1,000	27	27,000	00
13	Coarse aggregate for Pay Item E01.	t	200	102	20,400	00
and the second						
-	TOTAL OF PAGE CARRIED TO COLLECTION				443,725	00

ltem		Unit	Q'ty	Rate	Amount	
No.	Description	onic	Q ty	Mite	Rupées	ents:
14	Fine aggregate for Pay Item E01.	t	200	146	29,200	00
100	Bitumén for Pay Item E04	t.	500	3,306		100
	Turf for Pay Item E06.01	m2	2,000	15		
	Seed for Pay Item E06.02	kg	1,000	72		
74 D	Guardrail for Pay Item E07	w	100	1,887		
			100	30		
	Paint for Pay Item E09.01	kg	50	1,268		
21 1	Portland cement	t	30	1,200		
51	Stone for masonry for Pay Item GO1.	t	200	90	18,000	00
22	Timber for formwork	m3	50	3,775	188,750	00
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