

THE GOVERNMENT OF ST.VINCENT AND THE GRENADINES
 MINISTRY OF TRANSPORT AND WORKS
 REHABILITATION OF CONGO VALLEY ROADS AND BRIDGES , LOT 1&2
 LOT 1: REHABILITATION OF GRAND SABLE BRIDGE

Item	Description	Unit	Qty	Rate	Amount
	<p><u>PREAMBLE</u></p> <p><u>Description of the Works:</u> Lot 1: Rehabilitation of Grand Stable Bridge</p> <p>Site Location</p> <p>A The road is located on the North Eastern coast side of St Vincent. The Eastern limit of the site is the Grand Sable River Bridge.</p> <p>Scope of Works</p> <p>B This includes but is not limited to the following:</p> <p>i Establishment of a temporary roadway leading to bypass bridge,</p> <p>ii Construction of abutment and wing walls to accommodate temporary bypass bridge,</p> <p>iii Demolition and reconstruction of the existing grand stable bridge in its entirety (40 ft span), and associated wing walls</p> <p>iv Realignment/integration of roadway and drainage to suite the configuration of the new bridge and its related structures,</p> <p>vi Realignment of both sides of Grand Stable River using Gabion Basket (approximately 1078 ft total).</p> <p>vi Construction of Reinforced Concrete Retaining / Wing Wall (approximately 340 ft total).</p> <p>The Method Statement and program of works, submitted along with the tender, should indicate but not limited to the process and schedule of construction, the resources that will be employed, and time period for the construction of the works.</p> <p>The contractor is strongly advised to attend the <u>pre-tender</u> meeting as scheduled in the "Invitation to Tender", to visit the site and to familiarize themselves with the local conditions before construction to avoid any misconceptions.</p> <p><u>Demolition and Site clearance:</u></p> <p>C This work is to be designed and quantified at the discretion of the Contractor.</p> <p><u>General Items:</u></p> <p>D Method-Related Charge' means the sum for an item inserted in the Bill of Quantities by the tenderer in accordance with paragraph 7.2 of the CESMM3</p> <p>E Time-Related Charge' means a Method-Related Charge for work the cost of which is to be considered as proportional to the length of time taken to execute the work.</p>				

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	Cont'd //////////				
A	Fixed Charge' means a Method-Related Charge which is not a Time-Related Charge.				
B	The Contractor shall be paid for these charges in Interim Valuations in the same way as he is paid for measured work. All priced Method-related Charges must be fully described, including the resources expected to be used and the particular items of Permanent or Temporary Works to which the item relates.				
C	<u>In Situ Concrete:</u> Pre-mix suppliers should be approved by the Engineer and tested according to specifications.				
D	<u>Roads and Pavings:</u> All sub-bases, flexible road base and surfacing should confirm to specifications				
E	<u>Provisional Sums:</u> Daywork; items for percentage adjustment to Provisional Sums for Daywork shall correspond to with adjustments in the Daywork Schedule contained in the Bills of Quantities. The Contractor shall be paid for work executed on a Daywork basis at rates and prices calculated by adding the percentage additions stated in the Schedules of Dayworks carried out incidental to Contract Work to the rates and prices of Labour, Materials, Plant, and other supplementary charges.				
F	<u>Adjustment Item:</u> A lump sum addition or deduction given in the Grand Summary in adjustment of the total of the priced Bills of Quantities. It is inserted by the Tenderer/Contractor and will be applied in installments of Interim Certificates in the proportion that the amount bears to the total of the Bill of Quantities before its addition or deduction.				

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Item	Description	Unit	Qty	Rate	Amount
	CLASS A: GENERAL ITEMS				
	<i>Contractual Requirement</i>				
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	<i>Contractual Requirement</i>				
A110.0	Performance bond	Sum			
A110.1	Advance payment bond	Sum			
A120.0	Insurance for the Works	Sum			
A130.0	Third party insurance	Sum			
	<i>Specified Requirements, all in accordance with Engineer's Specifications</i>				
A211.1	Accommodation for Engineering Staff, offices, including establishment, removal and maintenance, Fixed Charge	Sum			
A233.1	Equipment for use by Engineer's Staff, Survey Equipment, include for Establishment, Removal and Maintenance during construction.	Sum			
A242.1	Attendance upon Engineer's Staff, Chainmen and the like, Time Related Charge	Sum			
A250.1	Testing of materials, including site tests and observations: permeability, groundwater level, plate bearing capacities and the like all in accordance with Engineer's Specifications	Sum			
A.250.2	Testing of Works, carried out after the issue of the Certificate of Substantial Completion	Sum			
	<i>Method-Related Charges Accommodation and Buildings, (clause 1.22)</i>				
A311.1	Offices, Fixed Charge	Sum			
A315.1	Canteens and Mess rooms, Fixed Charge	Sum			
	<i>Method-Related Charges, Services</i>				
A321.1	Electricity; Time-related	Sum			
A322.1	Water; Time-related ,	Sum			
A323.1	Security; Time-related	Sum			
A324.1	Hoardings, Fixed Charge	Sum			
	Carried to Collection	BQ/	3		

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Item	Description	Unit	Qty	Rate	Amount
	CLASS A : GENERAL ITEMS				
	Cont'd //////////////				
	Method-Related Charges, Plant				
A333.1	Earthmoving, Time related	Sum			
A334.1	Compacting, Time Related	Sum			
A342.1	Paving, Time Related	Sum			
A342.2	Concrete Mixing, Time Related	Sum			
A342.3	Pumping, Time Related	Sum			
	Method-Related Charges, Temporary Works				
A351.1	Traffic Diversion, Fixed Charge	Sum			
A352.1	Traffic Regulation, Fixed Charge	Sum			
A390.1	Provision and removal of project sign boards in accordance with Engineer's Specifications	Nr.	2		
A390.2	As-built drawings (specs clause 1.19) , Fixed Charge	Sum			
	Carried to Collection	BQ/	4		
	Collection		Page		
	Carried to Collection from Page	BQ/	3		
	Carried to Collection from Page	BQ/	4		
	CLASS A: GENERAL ITEMS				
	Carried to GRAND SUMMARY	BQ/	4		

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Item	Description	Unit	Qty	Rate	Amount
<u>CLASS D: DEMOLITION AND SITE CLEARANCE</u>					
D100.0	General clearance	sum			
D230.1	Cocunut trees, girth, 2-3 m, cocunut trees	nr.	4		
D230.2	Other trees, girth, 3-5 m	nr.	3		
D523.1	Existing bridge, together with its abutment walls and pier supports, Concrete, Volume 100 - 250 m ³	sum			
D523.2	Demolish existing drain for realignment O, concrete, volume: not exceeding 50 m ³	sum			
D513.1	Not withstanding the provision of the CESMM3 the contractor is responsible for the removal of boulders of varied size from excavation area and to store within 500 m of site for possible reuse as directed by the Project Engineer / Contract Administrator	CY	150		
CLASS D: DEMOLITION AND SITE CLEARANCE Carried to GRAND SUMMARY					

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Item	Description	Unit	Qty	Rate	Amount
	CLASS E: EARTHWORKS				
	<i>Excavation for Foundations, Material other than rock, or artificial hard material, Maximum depth 1-2 m, below a body of open water, commencing at existing ground level</i>				
E324.1	Bridge Abutment Walls	cy	130		
E324.2	Reinforced Concrete Retaining Walls	cy	131		
E324.3	Gabion Retaining Walls	cy	1,197		
E324.4	Underpinning to Retaining Wall	cy	40		
	<i>Excavation for Foundations, rock, maximum depth below a body of open water, commencing at existing ground level 1 - 3m</i>				
E324.5	Bridge Abutment Walls	cy	86		
E324.6	Reinforced Concrete Retaining Walls	cy	164		
E324.7	Gabion Retaining Walls	cy	1,376		
E324.8	Underpinning to Retaining Wall	cy	20		
	General Excavation				
E441.1	Asphaltic pavement, exposed at the commencing surface, maximum depth: not exceeding 250 mm (0'-10")	sy	630		
	<i>Excavation Ancillaries, preparation of excavated surfaces generally (generally (combination of granular material of various sizes obtained from river bed and material other than topsoil, rock or artificial hard material)</i>				
E520.1	Bridge Abutment Walls	sy	66		
E520.2	Reinforced Concrete Retaining Walls	sy	142		
E520.3	Gabion Retaining Walls	sy	1,423		
E520.4	Underpinning to Retaining Wall	cy	59		
	<i>Disposal of excavated material generally (combination of granular material of various sizes obtained from river bed and material other than topsoil, rock or artificial hard material)</i>				
E530.1	Bridge Abutment Walls	cy	157		
E530.2	Reinforced Concrete Retaining Walls	cy	201		
E530.3	Gabion Retaining Walls	cy	598		
E530.4	Reinforced Concrete Retaining Wall	cy	15		
	<i>Double Handling of excavated material generally (combination of granular material of various sizes obtained from river bed and material other than topsoil, rock or artificial hard material)</i>				
E540.1	Bridge Abutment Walls	cy	43		
E540.2	Reinforced Concrete Retaining Walls	cy	82		
E540.3	Gabion Retaining Walls	cy	688		
E540.4	Underpinning to Retaining Wall	cy	12		
	Carried to Collection	BQ/	6		

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Item	Description	Unit	Qty	Rate	Amount
	Filling to structure, selected excavated material generally (combination of granular material of various sizes obtained from river bed and material other than topsoil, rock or artificial hard material)				
E610.1	Bridge Abutment Walls	sy	59		
E610.2	Reinforced Concrete Retaining/ Wing Walls	cy	94		
E610.3	Gabion Retaining Walls	cy	1,138		
	Filling, to structures, imported granular material, aggregate size 50-125 mm (2"-5") generally				
E615.1	Bridge Abutment Walls	cy	364		
E615.2	Reinforced Concrete Retaining/ Wing Walls	cy	374		
E615.3	Gabion Retaining Walls	cy	886		
	Filling, to stated thickness, imported granular material (3"-5" aggregate),				
E645.1	Bridge Abutment Walls, 150 mm - 500 mm	cy	250		
E645.2	Reinforced Concrete Retaining/ Wing Walls	cy	110		
E645.3	Gabion Retaining Walls, 150 mm - 500 mm	cy	1,053		
	Filling Ancillaries, Trimming of Filled Surfaces generally (combination of granular material of various sizes obtained from river bed and material other than topsoil, rock or artificial hard material)				
E720.1	Reinforced Concrete Retaining/ Wing Walls	sy	261		
E720.2	Gabion Retaining Wall	sy	546		
	Carried to Collection	BQ/	7		
	Collection				
	Carried to Collection from Page	BQ/	6		
	Carried to Collection from Page	BQ/	7		
	CLASS E: EARTHWORKS				
	Carried to GRAND SUMMARY	BQ/	7		

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Item	Description	Unit	Qty	Rate	Amount
<u>CLASS F: INSITU CONCRETE</u>					
Provision of Concrete designed mix Grade: C10, cement to BS 12, 10 mm aggregate to blinding not exceeding 50 mm thick					
F221.1	Bridge Abutment Wall Foundation	sy	35		
F221.2	Reinforced Concrete Retaining/ Wing Walls	sy	371		
F263.3	Underpinning to existing retaining wall	sy	45		
Provision of Concrete, designed mix, Grade: C30, cement to BS 12, 20 mm aggregate to:					
F263.1	Bridge Abutment Wall Foundation	cy	38		
F263.2	Reinforced Concrete Retaining Wall Foundation	cy	125		
F263.3	Underpinning to existing retaining, include for virgin fibrillated polypropylene fibre to ASTM C1116.	cy	40		
F263.4	Suspended Slabs	cy	38		
F632.2	Reinforced Concrete Wall	cy	125		
F263.5	Bridge Abutment Wall	cy	100		
F263.6	Diaphragm	cy	5		
F263.7	Columns	cy	2		
Placing of Concrete, mass, blinding:					
F511.1	Bridge Abutment Wall Foundation	sy	35		
F511.2	Reinforced Concrete Retaining Walls	sy	371		
F263.3	Underpinning to existing retaining wall	sy	45		
Placing of Concrete, reinforced:					
F623.1	Bases, footings, pile caps and ground slabs, Reinforced Concrete Wall, thickness 600 mm	cy	125		
F624.1	Bases, footings, pile caps and ground slabs , thickness exceeding 500 mm	cy	38		
F624.2	Underpinning to existing retaining wall	cy	40		
F632.1	Suspended Slabs (bridge deck), thickness: not exceeding 200 mm, to falls and cross falls	cy	38		
F632.2	Reinforced Concrete Wall, thickness 600 mm	cy	125		
F644.1	Bridge Abutment walls, thickness: exceeding 500 mm	cy	100		
F665.1	Diaphragm, Cross-sectional area: 0.25 - 1 m ²	cy	5		
F665.2	Columns, Cross-sectional area:0.25 - 1 m ²	cy	2		
Carried to Collection		BQ/	8		

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Item	Description	Unit	Qty	Rate	Amount
	CLASS F: INSITU CONCRETE Cont'd				
	<i>Notwithstanding the provisions of the CESMM3 the following should include for Provision of Concrete, design mix, Grade C30, Cement to BS 12 or BS 146. 20 mm aggregate; include for all formwork, reinforcement, placing of concrete and finishes, all necessary excavation, backfilling, disposal excavated material, formwork, weeper hole pipe into walls . all in accordance with drawings and specifications</i>				
A	2'-0" x 2'-0" (internal dimensions) Reinforced Concrete Wall and Open Box Drain , See drawings L1 S08 (Combination RC Wall/RC Open Drain Section A-A)	L.F.	262		
C	0'-8" Thick Reinforced concrete Wall , See drawings L1 S08 (Section - Walkway Guard Wall)	S.Y.	50		
	Carried to Collection	BQ/	9		
	Collection				
	Carried to Collection from Page	BQ/	8		
	Carried to Collection from Page	BQ/	9		
	CLASS F: INSITU CONCRETE Carried to GRAND SUMMARY	BQ/	9		

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Item	Description	Unit	Qty	Rate	Amount
CLASS G: CONCRETE ANCILLARIES					
Formwork: rough finish, plane horizontal, width: 0.4-1.22 m to:					
G114.1	Bridge deck	sy	142		
G114.2	Diaphragm	sy	2		
Formwork: rough finish, sloping more than 30 degrees to the horizontal, width: 0.4-1.22 m to:					
G124.1	Diaphragm	sy	2		
Formwork: rough finish, plane vertical width: 0.4-1.22 m to:					
G144.1	Bases, footing, Abutment wall foundation	sy	45		
G144.2	Abutment wall	sy	219		
G144.3	Diaphragm	sy	20		
G144.4	Bridge deck	sy	11		
G144.5	Columns	sy	20		
G144.6	Reinforced Concrete Retaining Wall Footing, width: 0.1- 0.6 m.	sy	93		
Formwork: rough finish, plane vertical width: 0.4-1.22 m to:					
G145.1	Abutment wall	sy	219		
G145.2	Reinforced Concrete Wall	sy	750		
Reinforcement deformed high yield steel bars to BS 4449, nominal size;					
G523.1	10 mm in Foundation and Bridge Abutment	lbs	608		
G523.2	10 mm in Diaphragm	lbs	171		
G523.3	10 mm in Columns	lbs	266		
G523.4	10 mm in Suspended Slab	lbs	312		
G524.1	12 mm in Foundation and Bridge Abutment	lbs	549		
G524.2	12 mm in Suspended Slab	lbs	4,381		
G524.3	12 mm in Columns	lbs	360		
G524.4	12 mm in Reinforced Concrete Wall	lbs	16,986		
G525.1	16 mm in Foundation and Bridge Abutment	lbs	4,780		
G525.2	16 mm in Suspended Slab	lbs	6,543		
G525.3	16 mm in Columns	lbs	509		
G525.4	16 mm in Diaphragm	lbs	334		
G525.5	16 mm in Reinforced Concrete Wall	lbs	6,334		
G526.1	20 mm in Foundation and Bridge Abutment	lbs	10,543		
G526.2	20 mm in Suspended Slab	lbs	4,990		
G526.3	20 mm in Reinforced Concrete Wall	lbs	19,070		
G527.1	25 mm in Bridge Abutment	lbs	107		
Carried to collection		BQ/	10		

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Item	Description	Unit	Qty	Rate	Amount
CLASS G: CONCRETE ANCILLARIES Cont'd					
<i>Joints, as shown on Abutment Detail, Page S04 for the following:</i>					
G653.1	Plastic and rubber strip bearing, average width: 300 mm (Neoprene Pad)	LF	60		
G654.1	Plastic and rubber water stops, average width: 1 m (Preformed Compressible joint filler)	LF	60		
G660.1	3" x 3" x 1/4" thick wrought iron angle iron, welded in place to form jointing	LF	108		
<i>Concrete accessories, Finishing of formed surfaces, other stated surface treatments carried out after striking formwork :</i>					
G823.1	Wood float, Columns, width not exceeding 0'-10"	sy	23		
G823.2	Wood float, Column capping 225mm x 225 mm	nr	18		
G823.3	Surface features, copings and sills, 25 mm thick cement and sand, wood float finished, 1'-2" girth to Rubble Retaining Wall	LF	70		
G823.4	Painting, one (1) coat of primer and two (2) finishing coats of emulsion paint to rendered surfaces of columns	sy	23		
G831.1	Inserts, linear inserts 25mm x 25 mm thick (to form groves for concrete)	Lf	162		
Carried to collection		BQ/	11		
Collection					
Carried to Collection from Page		BQ/	10		
Carried to Collection from Page		BQ/	11		
CLASS G: CONCRETE ANCILLARIES					
Carried to GRAND SUMMARY		BQ/	11		

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Item	Description	Unit	Qty	Rate	Amount
	<u>CLASS H: PRECAST CONCRETE</u>				
	<i>Precast Member, design mix, Grade C30, Cement to BS 12 or BS 146. 10 mm aggregate; include for all formwork, reinforcement, placing of concrete and finishes, all necessary excavation, backfilling, disposal excavated material, formwork, all in accordance with drawing No. S06</i>				
H147.1	Reinforced Concrete Beams, Length 43'-10" , Mass: 10-20 Metric Tonnes, cross sectional type, rectangular 1'-2" x 2'-6" deep	Nr	6		
	<u>CLASS H: PRECAST CONCRETE</u> Carried to GRAND SUMMARY	BQ/	12		
	<u>CLASS I: PIPEWORK- PIPES</u>				
I511.1	Polyvinyl Chloride (PVC) pipes, nominal bore: not exceeding 200 mm (0'-4"), not in trenches but as weeper holes in retaining wall, average length 3'-3"	LF	204		
I761.1	High Density Polythylene pipes, nominal bore 1200 mm diameter, in trenches, depth 2- 2.5 m, spiolite - Century Eslon or approved equal encased in 150 mm thick fibre reinforced concrete , include for all necessary formwork	L.F.	60		
	<u>CLASS I: PIPEWORK- PIPES</u> Carried to GRAND SUMMARY	BQ/	12		
	<u>CLASS N: MISCELLANEOUS METALWORK</u>				
	<i>Hand rails</i>				
N140.1	3" dia. galvanized pipe fixed as specified, painted on completion with one (1) coat epoxy primer and two (2) coats of oil paint	Lf	176		
	<u>CLASS N: MISCELLANEOUS METALWORK</u> Carried to GRAND SUMMARY	BQ/	12		

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Item	Description	Unit	Qty	Rate	Amount
	<u>CLASS R: ROADS AND PAVEMENTS</u>				
	<u>Sub-bases, flexible road base and surfacing</u> <u>Granular Material DTp Specified,</u>				
	Graded crushed stone road base; depth 175mm				
R113.1	Main Roadway	sy	880		
R113.2	Carriage way (black point entrance)	sy	100		
R113.3	Carriage way (Congo Valley Road entrance)	sy	510		
R113.4	Carriage way (By-pass road)	sy	200		
R113.5	Slipper Drain	sy	56		
	Imported road sub-base; depth 200 mm				
R115.1	Main Roadway	sy	880		
R115.2	Carriage way (black point entrance)	sy	100		
R115.3	Carriage way (Congo Valley Road entrance)	sy	510		
R115.4	Slipper Drain	sy	56		
R115.5	Imported road sub-base: depth exceeding 200 mm	cy	569		
	<u>Sub-bases, flexible road base and surfacing</u>				
R322.0	Rolled asphalt, depth 50mm	sy	1,390		
R323.0	Bitumen prime coat, depth of penetration 25 mm	sy	1,390		
	<u>Not withstanding the provisions of the CESMM 3</u> <u>the following Concrete pavement, carriageway slab</u> <u>of DTp specified paving quality concrete, should</u> <u>include for excavation and earthworks</u>				
R415.1	Depth: 0'-6" thick, broom finish and 100 mm metal float around perimeter all in accordance with drawings L1 S08 (section -walkway)	sy	100		
R415.2	Depth: 0'-6" thick, broom finish and 100 mm broom finished all in accordance with drawings L1 S08 (by-pass road)	sy	200		
	<u>Joints in concrete pavement</u>				
R514.0	longitudinal joints, Depth of joints: 150 mm	L.F.	36		
	<u>Not withstanding the provisions of the CESMM 7</u> <u>include for Earthworks for Kerb, channels and</u> <u>edgings, In situ concrete kerbs and edgings,</u> <u>straight or curved to a radius exceeding 12 m,</u> <u>cross sectional dimension:</u>				
R661.1	2'-0" x 1'-2" thick in accordance with drawings L1 S08 (Section X-X - Wall/ Slipper Drain)	L.F.	206		
R661.2	2'-0"x 1'-2" thick , in accordance with drawings L1 S08 (Section - Walkway)	L.F.	50		
	<u>Ancillaries</u>				
R812.1	Traffic Signs, illuminated , in accordance with the drawings and specifications	nr	10		
R824.1	Surface Markings - continuous lines, 100mm wide, Yellow, in accordance with the drawings and specifications	L.F.	360		
	CLASS R: ROADS AND PAVEMENTS				
	Carried to GRAND SUMMARY	BQ/	13		

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Item	Description	Unit	Qty	Rate	Amount
	<u>CLASS U: BRICKWORK, BLOCKWORK AND MASONRY</u>				
U111.1	Common Block/ Brickwork , 0'-6" thick x 3'-0" high (average) reinforced concrete block wall laid to stretcher bond in mortar (1:3) including filling all cavity with concrete (1:3:6),reinforced with 12 mm mild steel main bars 400mm c/c vertically , include for 0'-11" wide capping beam and all necessary surface finishes. See drawings LI S08 (Section - Walkway)	sy	7		
	<u>CLASS U: BRICKWORK, BLOCKWORK AND MASONRY</u> Carried to GRAND SUMMARY	BQ/	14		
	<u>CLASS W: WATER PROOFING</u>				
	<u>Geotextile</u> Non woven needle punched polyester fabric, DTp specified to general surfaces of the follow as specified in drawings,				
W130.1	To Gabion Retaining Wall	sy	2,650		
	<u>CLASS W: WATER PROOFING</u> Carried to GENERAL SUMMARY on Page GS/1	BQ/	15		
	<u>CLASS X: MISCELLANEOUS WORK</u>				
	<i>Rock filled box gabion in accordance with Engineer's Specifications & Drawing,</i>				
X410.1	Imported fill material, rock size 6"- 8" including cost for installation of gabion baskets.	cy	2,191		
X410.2	Gabion boxes, size: 3'-0"x 3'-0" x 6'-0" long all in accordance with drawings and specifications (transport, fabrication and install gabions only)	nr	1,095		
	<u>CLASS X: MISCELLANEOUS WORK</u> Carried to GENERAL SUMMARY on Page GS/1	BQ/	15		