

SYARIKAT AIR MELAKA BERHAD

DOKUMEN TAWARAN

RUJUKAN TAWARAN: SAMB / 21 / 2025

PERLANTIKAN PANEL BAGI KERJA-KERJA PENYELENGGARAAN
SISTEM RANGKAIAN PAIP SERTA LAIN-LAIN KERJA BERKAITAN DI
DAERAH MELAKA TENGAH, JASIN DAN ALOR GAJAH BAGI TEMPOH
SATU (1) TAHUN

KETUA PEGAWAI EKSEKUTIF, SYARIKAT AIR MELAKA BERHAD, LOT 897, WISMA AIR, JALAN HANG TUAH, 75300 MELAKA.

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KANDUNGAN

BAHAGIAN A : ARAHAN KEPADA PETENDER

BAHAGIAN B : SYARAT-SYARAT KONTRAK (SAMB 100)

BAHAGIAN B1 : ADDENDA NO.1 KEPADA SYARAT-SYARAT KONTRAK

BAHAGIAN C : BORANG TENDER (SAMB 100B)

BAHAGIAN D : SURAT AKUAN PEMBIDA

BAHAGIAN E : SURAT SETUJUTERIMA TENDER (SAMB 100D)

BAHAGIAN F : KEHENDAK-KEHENDAK PROJEK

BAHAGIAN G : SPESIFIKASI

BAHAGIAN H : JADUAL KADAR HARGA

BAHAGIAN I : LATAR BELAKANG PETENDER

SENARAI SEMAK PENGHANTARAN DOKUMEN TENDER

Penender diwajibkan menghantar dokumen di bawah untuk tujuan penilaian oleh pihak Syarikat Air Melaka Berhad (SAMB). Kegagalan pihak tuan/puan menghantar dokumen berikut boleh menyebabkan sebutharga tuan/puan tidak akan dipertimbangkan.

Bil	Dokumen	Tand	kan (Sila akan √ erkaitan)	Semakan Oleh SAMB		
	PENILAIAN TEKNIKAL					
1	Profil Syarikat	()	()	
2	Pengalaman Kerja (sila sertakan surat tawaran)	()	()	
3	Senarai Kenderaan dan Peralatan Kerja (Jika Berkaitan)	()	()	
4	Senarai Nama Pekerja	()	()	
5	Katalog Produk (Jika Berkaitan)	()	()	
6	Sijil Suruhanjaya Perkhidmatan Air Negara (SPAN) yang masih sah (Jika Berkaitan)	()	()	
7	Sijil IKRAM/SIRIM yang masih sah (Jika Berkaitan)	()	()	
8	Salinan Sijil Kementerian Kewangan Malaysia yang masih sah (Jika Berkaitan)	()	()	
9	Salinan Sijil Perolehan Kerja Kerajaan (SPKK) yang masih sah (Jika Berkaitan)	()	()	
10	Salinan Pendaftaran Lembaga Pembangunan Industri Pembinaan Malaysia (LPIPM/CIDB) yang masih sah (Jika Berkaitan)	()	()	
11	Salinan Pendaftaran Kementerian Kewangan & Sijil Taraf Bumiputera yang masih sah (Jika Berkaitan)	()	()	
12	Salinan Pendaftaran Kementerian Dalam Negeri (KDN) yang masih sah (Jika Berkaitan)	()	()	
13	Salinan Permit Suruhanjaya Perkhidmatan Air Negara (SPAN) (Jika Berkaitan)	()	()	
14	Surat perlantikan wakil sah pengedar daripada pengilang. (Jika Berkaitan)	()	()	
15	Jadual Perancangan Kerja Dan Tempoh Siap Kerja Yang Munasabah (Jika Berkaitan)	()	()	

	PENILAIAN KEWANGAN					
16	Salinan bukti pembayaran pembelian dokumen Tender	()	()	
17	Keseluruhan Dokumen Asal Tender Dikembalikan	()	()	
18	Harga dan Tempoh Kerja Dicatatkan Dalam Borang Tender	()	()	
19	Borang Tender Ditandatangan Oleh Pemilik Syarikat	()	()	
20	Surat Akuan Pembida Diisi dan Ditandatangani oleh Pemilik Syarikat	()	()	
21	Penyata Bank 3 Bulan Yang Terkini / Penyata Kewangan Satu (1) Tahun	()	()	
22	Salinan Pendaftaran Suruhanjaya Syarikat Malaysia (SSM) Lengkap Beserta Maklumat Korporat	()	()	
23	Salinan Borang 9, Borang 24 dan Borang 49 Bagi Syarikat Sdn Bhd	()	()	
24	Penyata Akaun (2) Tahun yang telah diaudit.	()	()	
	Lain-lain sijil yang berkaitan:-					

(Tandatangan Petender)
Nama :
No. I/C:
Tarikh :
Materi atau Cop Syarikat :
DISEMAK OLEH:
(Tandatangan Pegawai SAMB)
Nama :
ivallia .
Jawatan :

Tarikh :

.....

BAHAGIAN A ARAHAN KEPADA PETENDER

ARAHAN KEPADA PETENDER

SYARIKAT AIR MELAKA BERHAD (SAMB)

PERLANTIKAN PANEL BAGI KERJA-KERJA PENYELENGGARAAN SISTEM RANGKAIAN PAIP SERTA LAIN-LAIN KERJA BERKAITAN DI DAERAH MELAKA TENGAH, JASIN DAN ALOR GAJAH BAGI TEMPOH SATU (1) TAHUN.

1. PERIHAL TENDER

Tender ini bertujuan untuk mendapatkan perkhidmatan kontraktorkontraktor yang berdaftar bagi **Perlantikan Panel Bagi Kerja-Kerja Penyelenggaraan Sistem Rangkaian Paip Serta Lain-Lain Kerja Berkaitan Di Daerah Melaka Tengah, Jasin Dan Alor Gajah Bagi Tempoh Satu (1) Tahun.**

2. KELAYAKAN PETENDER

Tender ini adalah dipelawa kepada kontraktor-kontraktor yang berdaftar dengan *PERAKUAN PENDAFTARAN (CIDB) G1 / G2 / G3 / G4 / G5 / G6 / G7 PENGKHUSUSAN CE01 & CE20 / CE39* dan *SPAN Permit IPA Jenis D (Bekalan Air)* yang masih sah dan dibenarkan untuk membuat tawaran buat masa ini.

3. DOKUMEN TENDER

Satu Set Dokumen Tender boleh dimuat turun di laman sesawang Syarikat Air Melaka Berhad (www.samb.com.my). Petender hendaklah mengemukakan bayaran melalui Pindahan Wang ke akaun **Bank Islam 04015010075113** (**Syarikat Air Melaka Berhad**) sebanyak **RM 150.00.** Wang ini tidak akan dikembalikan.

4. PENYEDIAAN TENDER

- 4.1 Petender adalah dikehendaki mengisi segala maklumat-maklumat dengan sepenuhnya pada :
 - a) Borang Tender
 - b) Ringkasan Tawaran
 - c) Jadual Kadar Harga
 - d) Latar Belakang Petender

- 4.2 Tulisan hendaklah terang dan dibuat dengan dakwat. Segala kesilapan hendaklah dipotong dengan cermat dan ditandatangan ringkas.
- 4.3 Jumlah harga pada Ringkasan Tawaran hendaklah dipindahkan ke dalam Borang Tender dan sekiranya berlaku perbezaan diantara harga didalam Ringkasan Tawaran dan harga didalam Borang Tender, harga dalam Borang Tender akan diambilkira.

5. PENYERAHAN TENDER

5.1 Tender hendaklah dimasukkan kedalam satu sampul surat berlakri dan ditulis di bahagian luarnya dengan tajuk tender tersebut tanpa terdapat apa-apa tanda-tanda yang membolehkan identiti petender dikenali. Sampul surat yang telah berlakri itu hendaklah dihantar kepada:-

Ketua Pegawai Esekutif Syarikat Air Melaka Berhad Lot 897, Tingkat 7, Wisma Air, Jalan Hang Tuah, 75300 Melaka.

sebelum **pukul 12.00 tengah hari** pada 24 SEPTEMBER 2025

- 5.2 Mana-mana tender yang diterima selepas tarikh tutup yang ditetapkan akan ditolak atau dikembalikan semula kepada petender.
- 5.3 Petender-petender hendaklah mengambil maklum bahawa Penilaian Tender ini akan mengambil kira dan mementingkan keupayaan petender untuk melaksanakan projek yang ditender, disamping kemunasabahan harga tender. Justeru itu, keupayaan petender-petender akan dinilai semasa penilaian tender. Penilaian tender akan dibuat berasaskan kedudukan kewangan, pengalaman kerja, kakitangan teknikal dan prestasi kerja semasa petender.

Petender-petender dikehendaki mengemukakan maklumatmaklumat dan dokumen seperti yang dikehendaki sepertimana di dalam Latar Belakang Petender

5.4 Dokumen-dokumen ini sangatlah penting untuk membolehkan penilaian keupayaan yang sewajarnya dibuat keatas petender. Sekiranya petender tidak atau gagal untuk mengemukan dokumendokumen tersebut, tender petender berkenaan akan ditolak dan tidak akan dipertimbangkan.

PETENDER DIKEHENDAKI MENYERTAKAN SATU SALINAN SIJIL PENDAFTARAN ASAL YANG BERKAITAN YANG TELAH DISAHKAN BERSAMA-SAMA DENGAN DOKUMEN TENDER SEMASA MENGEMUKAKAN TAWARAN.

6. TINDAKAN TATATERTIB

Earnest Money atau Deposit Tender tidak diperlukan semasa mengemukakan tender. Walau bagaimanapun jika petender menarik balik tawarannya sebelum sesuatu keputusan dibuat atau enggan menandatangan kontrak apabila tendernya diterima dalam tempoh sahlaku tender, iaitu sembilan puluh (90) hari dari tarikh akhir yang ditetapkan bagi penyerahan tender, maka pendaftarannya akan digantung selama dua (2) tahun bagi kesalahan pertama, lima (5) tahun untuk kesalahan kedua dan pendaftarannya akan dibatalkan untuk kesalahan ketiga.

7. MAKLUMAT-MAKLUMAT LANJUT

- 7.1 Jika terdapat apa-apa keraguan keatas makna sebenar manamana bahagian dalam dokumen tender, petender hendaklah menghubungi Pegawai Penguasa untuk mendapatkan penjelasan sebelum menghantar tendernya. Penjelasan tersebut hanya sah jika ia di keluarkan secara rasmi dan bertulis oleh Pegawai Penguasa.
- 7.2 Dari masa ke semasa sebelum tarikh tutup tender, Pegawai Penguasa mungkin akan mengeluarkan pindaan atau tambahan untuk memberi penjelasan atau memperbaiki Dokumen Tender.
- 7.3 Satu salinan pindaan tender akan dikeluarkan secara rasmi kepada petender dan ianya akan menjadi sebahagian daripada Dokumen Tender. Penerimaan tambahan tersebut mestilah disahkan kedalam borang yang dikepilkan bersama-sama dengan pindaan tersebut.

8. HAK SAMB UNTUK MENERIMA/MENOLAK TENDER

SAMB tidak terikat untuk menerima tender terendah atau mana-mana tender atau memberi sebarang sebab diatas penolakan sesuatu tender. Keputusan Lembaga Tender SAMB adalah muktamad.

9. BON PERLAKSANAAN

Kontraktor yang dilantik dikehendaki mengemukakan Bon Perlaksanaan sebanyak 5% daripada jumlah harga kontrak dalam bentuk Jaminan Bank atau Jaminan Insuran.

10.KOS MENENDER

Segala perbelanjaan yang dikeluarkan untuk menyedia dan mengemukakan tawaran hendaklah dibuat atas perbelanjaan sendiri dan petender tidak dibenarkan membuat apa-apa tuntutan kepada Syarikat Air Melaka Berhad (SAMB) berkaitan dengan hal tersebut.

- **11.**SAMB tidak akan bertanggungjawab atau membayar perbelanjaan atau kehilangan yang boleh berlaku disebabkan penyediaan dokumen tender dan siasatan di tapak.
- **12.**Segala kerja yang dinyatakan dalam kadar harga atau spefikasi akan dinyatakan di dalam kontrak.

Tarikh: Tandatangan Petender:

ARAHAN-ARAHAN YANG PERLU DIMASUKKAN KE DALAM ARAHAN KEPADA PETENDER.

A. <u>Maklumat Latar Belakang, Kewangan Dan Prestasi Petender.</u>

- 1. Petender-petender hendaklah mengambil makluman bahawa penilaian Tender ini akan mengambil kira dan mementingkan petender untuk melaksanakan projek yang ditender disamping kemunasabahan harga tender. Justeru itu keupayaan petender-petender akan dinilai semasa penilaian Tender. Penilaian ini akan dibuat berasaskan kedudukan kewangan, pengalaman kerja, kakitangan teknikal dan prestasi kerja semasa petender.
- 2. Untuk membolehkan Penilaian ini dibuat, petender-petender dikehendaki mengemukakan dokumen-dokumen berikut bersama-sama tendernya:-
 - (i) Salinan Akaun Syarikat yang telah disahkan dan diaudit oleh Juru Audit yang bertauliah, bagi dua (2) tahun kewangan terakhir. (Bagi Syarikat Sdn. Bhd. sahaja)
 - (ii) Salinan Penyata Bulanan Akaun Bank mengenai wang dalam tangan petender bagi tiga (3) bulan terakhir sebelum tutup tender
 - (iii) Laporan Bank/Institusi kewangan mengenai kedudukan petender, atas format seperti BORANG CA (A/8), dalam satu sampul berlakri.
 - (iv) Salinan Perakuan / Pengesahan siap kerja bagi setiap kerja yang telah Disiap dan disenaraikan di BORANG A4.
 - (v) Salinan Borang KWSP `A' bagi bulan caruman terakhir bagi setiap kakitangan teknikal atau salinan perjanjian perkhidmatan professional yang diambil khidmat secara kontrak yang disenaraikan di BORANG A5.
 - (vi) Salinan sijil kelulusan / kelayakan setiap kakitangan teknikal kategori A dan B yang disenaraikan di BORANG A5.

5

(vii) Laporan Penyelia Projek mengenai prestasi semasa petender, bagi setiap kerja semasa yang bukan projek SAMB yang disenaraikan di BORANG A9, dalam satu sampul berlakri. Dokumen-dokumen ini sangatlah penting untuk membolehkan penilaian keupayaan yang sewajarnya dibuat ke atas petender.

Sekiranya petender tidak atau gagal untuk mengemukakan dokumen-dokumen ini, terutamanya dokumen-dokumen (i), (ii), dan (vii) diatas, tender petender <u>akan ditolak</u> dan tidak akan dipertimbangkan.

- 3. Sekiranya petender gagal untuk mengemukakan salah satu bahagian daripada dokumen-dokumen (iii), (iv), (v), dan (vi), maklumat dan datadata yang tidak dapat disemak kerana ketiadaan atau ketidakcukupan dokumen-dokumen tersebut adalah tidak sah dan tidak boleh diambil kira dalam penilaian keupayaan petender yang berkenaan melainkan maklumat atau data-data tersebut membawa kesan negatif terhadap nilai keupayaannya. Ini bermakna kriteria-kriteria yang mana penilaiannya memerlukan maklumat atau data-data ini, akan diambil sebagai kosong.
- 4. Disamping mengemukakan dokumen-dokumen yang tersebut diatas petender-petender dikehendaki melengkapkan borang-borang berikut yang disertakan bersama Dokumen Tender ini, dengan sempurna dan mengembalikan bersama-sama dengan tender masing-masing.
 - (a) BORANG A SURAT PENGAKUAN KEBENARAN
 MAKLUMAT DAN KEESAHAN DOKUMENDOKUMEN YANG DIKEMUKAKAN OLEH
 PETENDER.
 - (b) BORANG B MAKLUMAT AM DAN LATAR BELAKANG PETENDER.
 - (c) BORANG C DATA-DATA KEWANGAN.
 - (d) BORANG D REKOD PENGALAMAN KERJA.
 - (e) BORANG E KAKITANGAN TEKNIKAL.
 - (f) BORANG F KEPUNYAAN LOJI DAN PERALATAN PEMBINAAN UTAMA.
 - (g) BORANG G SENARAI KERJA KONTRAK SEMASA

(h) BORANG CA- LAPORAN BANK/INSTITUSI KEWANGAN MENGENAI KEDUDUKAN KEWANGAN PETENDER.

(i) BORANG GA- LAPORAN PENYELIA PROJEK ATAS
PRESTASI KERJA (BUKAN / PROJEK SAMB)
SEMASA PETENDER.

Borang-borang ini hendaklah diisi dengan maklumat-maklumat yang benar dan data-data yang tepat. Semua butiran perlu diisi dan jawapan yang jelas hendaklah diberikan terhadap semua pertanyaan di dalam borang-borang di atas. Jika perlu helaian tambahan boleh dilampirkan dan setiap helaian tambahan yang dilampirkan kepada borang-borang lain hendaklah ditandatangani oleh petender.

- 5. Bagi petender usahasama atau gabungan (seperti yang dibenarkan oleh CIDB) antara dua atau lebih kontraktor setiap ahli gabungan hendaklah masing-masing melengkapkan borang-borang yang tersebut di atas yang berasingan.
- 6. Semua maklumat dan dokumen-dokumen yang tersebut di atas hendaklah dikemukakan oleh petender bersama-sama tendernya sebelum tarikh tutup Tender dan petender tidak akan berpeluang lagi untuk mengemukakannya selepas itu.
- 7. Sekiranya petender didapati memberikan maklumat palsu atau sengaja menyorok (withold) atau tidak memberikan mana-mana maklumat yang memberikan kesan negatif terhadap keupayaannya, tendernya akan ditolak dan tindakan tatatertib akan diperakukan terhadapnya.

BAHAGIAN B SYARAT-SYARAT KONTRAK (SAMB 100)

SYARIKAT AIR MELAKA BERHAD



STANDARD FORM OF CONTRACT TO BE USED WHERE BILLS OF QUANTITIES FORM PART OF THE CONTRACT

FORM SAMB 100 (Rev. 1/2010)

CONDITIONS OF CONTRACT TO BE USED WHERE BILLS OF QUANTITIES FORM PART OF THE CONTRACT

FORM SAMB 100 (Rev. 1/2010)

TABLE OF CONTENTS

Clause		Page
1.0	DEFINITIONS AND INTERPRETATIONS	1
2.0	CONTRACT PERIOD	3
3.0	THE S.O. AND S.O.'S REPRESENTATIVE	4
4.0	S.O.'S RIGHT TO TAKE ACTION	4
5.0	S.O.'S INSTRUCTIONS	5
6.0	SCOPE OF CONTRACT	5
7.0	CONTRACT SUM	6
8.0	CONTRACT DOCUMENTS	6
9.0	REPRESENTATIONS, WARRANTIES AND UNDERTAKINGS OF THE CONTRACTOR	7
10.0	OBLIGATIONS OF THE CONTRACTOR	8
11.0	INSPECTION OF SITE	9
12.0	PROGRAMME OF WORK	9
13.0	PERFORMANCE BOND/PERFORMANCE GUARANTEE SUM	10
14.0	INDEMNITY IN RESPECT OF PERSONAL INJURIES AND DAMAGE TO	11
	PROPERTY	
15.0	INSURANCE AGAINST PERSONAL INJURIES AND DAMAGE TO PROPERTY	11
16.0	INDEMNITIES TO SAMB INRESPECT OF CLAIMS BY WORKMEN	12
17.0	EMPLOYEES' SOCIAL SECURITY ACT, 1969	13
18.0	INSURANCE OF WORKS	13
19.0	SETTING OUT	14
20.0	UNFIXED MATERIALS AND GOODS	15
21.0 22.0	COMPLIANCE WITH THE LAW	15 45
23.0	DESIGN EMBLOYMENT OF WORKMEN	15
24.0	EMPLOYMENT OF WORKMEN VARIATIONS	16 18
25.0	VALUATION OF VARIATION	18
26.0	SUMMARY OF TENDER	19
27.0	MEASUREMENT OF WORKS	20
28.0	PAYMENT TO CONTRACTOR AND INTERIM CERTIFICATES	20
29.0	ADJUSTMENT OF CONTRACT SUM	21
30.0	FLUCTUATION OF PRICE	21
31.0	FINAL ACCOUNT AND PAYMENT CERTIFICATE	21
32.0	EFFECT OF S.O.'S CERTIFICATES	22
33.0	DEDUCTION FROM MONEY DUE TO CONTRACTOR	22
34.0	PRIME COST / PROVISIONAL SUMS	22

Clause		Page
35.0	MATERIALS, GOODS AND WORKMANSHIP	23
36.0	INSPECTION AND TESTING OF MATERIALS, GOODS AND EQUIPMENT	23
37.0	CONSTRUCTIONAL PLANT, EQUIPMENT, VEHICLES AND MACHINERIES	24
38.0	POSSESSION OF SITE	25
39.0	COMPLETION OF WORKS	26
40.0	DAMAGES FOR NON-COMPLETION	27
41.0	SECTIONAL COMPLETION	27
42.0	PARTIAL OCCUPATION/TAKING OVER BY SAMB	28
43.0	DELAY AND EXTENSION OF TIME	29
44.0	CLAIMS FOR LOSS AND EXPENSE	30
45.0	INVESTIGATION BY THE SAMB AND OTHER PERSONS IN CASE	30
	OF ACCIDENT, FAILURE OR OTHER EVENT	
46.0	ACCESS FOR WORKS, ETC.	30
47.0	SUB-CONTRACT OR ASSIGNMENT	31
48.0	DEFECTS AFTER COMPLETION	32
49.0	UNFULFILLED OBLIGATIONS	33
50.0	SUSPENSION OF WORKS	33
51.0	EVENTS AND CONSEQUENCES OF DEFAULT BY THE CONTRACTOR	34
52.0	TERMINATION ON NATIONAL INTEREST	36
53.0	TERMINATION ON CORRUPTION, UNLAWFUL OR ILLEGAL ACTIVITIES	37
54.0	PAYMENTS UPON SUSPENSION AND TERMINATION ON NATIONAL	37
	INTEREST	
55.0	EVENTS AND CONSEQUENCES OF DEFAULT BY THE SAMB	38
56.0	CERTIFICATE OF TERMINATION COSTS	38
57.0	SURVIVING RIGHTS	39
58.0	EFFECT OF FORCE MAJEURE	39
59.0	SITE AGENT AND ASSISTANTS	40
60.0	NOMINATED SUB-CONTRACTORS AND/OR NOMINATED SUPPLIERS	40
61.0	PAYMENT TO NOMINATED SUB-CONTRACTOR OR SUPPLIERS	41
62.0	NO LIABILITY OF SAMB TO NOMINATED AND/OR SUB-	42
	CONTRACTOR OR SUPPLIER	
63.0	RESPONSIBILITIES OF CONTRACTOR TO NOMINATED AND / OR SUB-	42
	CONTRACTORS OR SUPPLIERS	
64.0	INTELLECTUAL PROPERTY RIGHTS	42
65.0	ANTIQUITIES	43
66.0	ARBITRATION	43
67.0	NOTICE, ETC.	44
68.0	SAFETY AT THE SITE	45

Clause		Page
69.0	ADVANCE PAYMENT	46
70.0	AMENDMENT	47
71.0	CONFIDENTIALITY	47
72.0	STAMP DUTY	47
73.0	SEVERABILITY	47
74.0	WAIVER	48
75.0	LAWS APPLICABLE	48
76.0	SUCCESSORS BOUND	48
77.0	EPIDEMICS AND MEDICAL ATTENDANCE	48
78.0	TECHNOLOGY TRANSFER	48
79.0	GENERAL DUTIES AND PERFORMANCE STANDARD	48
80.0	RESTRICTION AND PROCEDURE ON USE OF IMPORTED MATERIALS AND	49
	GOODS	
81.0	TIME	49

CON	TRACT NO:						of 20					
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					Sub-head							
					Year of							
A CC	ONTRACT made	on	day of .		20 bet	ween the	SAMB	of Malay	rsia (here	einafter		
	referre			the	"SAMB")	of	the	one	part	and		
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B.	The said Drawi	ngs numb	ered				(he	ereinafter	referred	I to as		
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NOW	IT IS HEREBY AG	GREED A	S FOLL	.ows:								

1.0 **DEFINITIONS AND INTERPRETATION**

Definition 1.1

Unless the context otherwise requires, this Contract or an item or entry in the Appendices specifically otherwise provides, the following words and phrases in this Contract and the

Appendices shall have the meaning given below or ascribed in the clauses or Appendix item to which reference is made:

"Contract" means this contract and the appendices attached hereto; (a) "Contract Documents" means the documents forming the tender and acceptance (b) thereof including: Form of Tender; Letter of Acceptance of Tender; Contract Drawings: Summary of Tender; Specifications; Treasury's Instructions; Provisional Bills Quantities (if any).....;;, and all these documents shall be complementary to one another; (c) "Contractor" means the person or persons, sole proprietor, partnership, firm or company whose tender for the Works has been accepted and who has or have signed this Contract and includes the Contractor's personal representatives, heirs, successors, executors, administrators, servant and agent; "Contract Period" (d) means the time frame stipulated in clause 2; "Contract Sum" (e) means the sum stipulated in clause 7; (f) "Date for Completion" means the date fixed and stated in Appendix or any other date as provided for in clause 39; "Defects Liability Period" (g) means the period stated in Appendix or if none stated, the period is twelve (12) months from the date of practical completion certified by the S.O. as provided for under clause 39.3; "Nominated Sub-.(h) means all specialist, merchants, tradesmen and others executing Contractor" or "Nominated any work or services, or supplying any materials or goods for Supplier" which Prime Cost Sum (or P.C. Sums) are included in the Bills of Quantities or which the S.O. has given written instructions in regard to the expenditure of Provisional Sum and who may be nominated by the S.O. and employed by the Contractor as Subcontractors or Suppliers: "On-Cost Charges" means any cost and expenses reasonably incurred by the (i) SAMB: "Officer Named" means officer empowered to take action on behalf of the (j) SAMB pertaining to clauses;

(k)	"Prime Cost" or abbreviation "P.C. Sum"	means a sum for works or services to be executed by a Nominated Sub-Contractor or sums for materials or goods to be obtained from a Nominated Supplier;
(I)	"Provisional Sum"	means a sum for work or for the supply of goods or materials which cannot be defined or detailed at the time the tender documents are issued;
(m)	"Site"	means the land and other places on, above, under, in or through which the Works are to be executed and any other lands or places provided or approved by the SAMB for working space or any other purposes as may be specifically designated in this Contract and whether the same may be on the Site or not;
(n)	"S.O."	means the Superintending Officer who shal be and/or his successors in office;
(o)	"S.O.'s Representatives"	means any person or persons delegated or authorised in writing by the S.O. to perform any of the duties of the S.O. as may be from time to time notified in writing to the Contractor by the S.O. pursuant to clause 3.3(a) of this Contract;
(p)	"Works"	means the works specified in the Contract Documents and shall include temporary works.

1.2 Interpretation

- (a) The terms "approved or approval" and "directed or direction" wherever used in this Contract shall be in writing.
- (b) Words importing the singular include the plural and vice versa where the context requires.
- (c) The headings are for convenience of reference only and shall not be deemed to be part of this Contract or be taken into consideration in the interpretation or construction of this Contract.
- (d) Unless otherwise specifically stated, a reference in this Contract and the Appendices to any clause means that clause in this Contract.
- (e) This Contract and the Appendices are to be read as a whole and the effect or operation of any clause in this Contract or item in or entry in the Appendices shall, unless otherwise specifically stated, be read subject to any relevant qualification or modification in any other clauses in this Contract or item in or entry in the Appendices.

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3.0 THE S.O. AND S.O.'S REPRESENTATIVE

3.1 Duties of S.O. and S.O.'s Representative

The S.O. shall be responsible for the overall supervision and direction of the Works. All matters regarding the Works shall be dealt with by the Contractor with the S.O.

3.2 S.O.'s Representative

- (a) The S.O. may from time to time appoint such number of S.O.'s Representative as he deems fit.
- (b) The S.O.'s Representative shall be responsible to the S.O. and his duties are to watch and supervise the Works and to test and examine any materials or goods to be used or workmanship employed in connection with the Works.

3.3 S.O.'s Authority to Delegate

- (a) The S.O. may from time to time in writing delegate to the S.O.'s Representative any of the powers and authorities vested in the S.O. as listed in the letter of delegation and shall furnish to the Contractor a copy of all such written delegation of powers and authorities.
- (b) Any instruction or approval given by the S.O.'s Representative to the Contractor within the terms of such delegation shall bind the Contractor and the SAMB as though it had been given by the S.O. PROVIDED THAT failure of the S.O.'s Representative to disapprove any work or material shall not prejudice the power of the S.O. thereafter to disapprove such work or materials and to order the pulling down, removal or breaking up thereof.
- (c) If the Contractor is not satisfied with any decision of the S.O.'s Representative, the Contractor shall refer the matter to the S.O. who shall confirm, reverse or vary the decision of the S.O.'s Representative.
- (d) The delegation under this clause shall not preclude the S.O. from himself exercising or performing at any time any of the delegated powers and duties.

4.0 S.O.'S RIGHT TO TAKE ACTION

- 4.1 Notwithstanding any provision in this Contract it is hereby agreed that:
 - (a) the power of the S.O. to issue instruction requiring a variation under clause 24 shall be subject to the financial limits as set out in Appendix 1 hereto. If the instruction for a variation under clause 24 is more than the financial limits as set out in the Appendix 1, the S.O. shall obtain the prior written approval of the relevant authorities of the SAMB; and
 - (b) the right to act on behalf of the SAMB in respect of any matter which arises out of the provisions of clauses 51, 52, 53, 58 and 66 shall be exercised by the Officer Named in Appendix 1;
- 4.2 The Contractor shall not be entitled to extension of time or any additional cost or expense or whatsoever arising from compliance with this clause 4.

5.0 S.O.'S INSTRUCTIONS

- 5.1 The S.O. may from time to time issue further drawings, details and/or written instructions (all of which are hereafter collectively referred to as "S.O.'s instructions") in regard to-
 - (a) the Variation as referred to in clause 24 hereof;
 - (b) any discrepancy in or between the Contract Documents as referred to in clause 8.2(b) hereof;
 - (c) the removal from the Site of any materials or goods brought thereon by the Contractor and the substitutions of any other materials or goods therefore;
 - (d) the removal and/or re-execution of any works executed by the Contractor;
 - (e) the dismissal from the Works of any person mentioned in clause 23.6 hereof employed thereupon;
 - (f) the opening up for inspection of any work covered up;
 - (g) the amending and making good of any defects whatsoever under clause 48;
 - (h) any matter which is necessary and incidental to the carrying out and completion of the Works under this Contract; and
 - (i) any matter in respect of which the S.O. is expressly empowered by this Contract to issue instructions.
- All instructions issued by the S.O. shall be in writing. The Contractor shall forthwith comply with all instructions issued to him by the S.O. If such instruction is given orally, the S.O. shall then issue a written instruction within seven (7) days from the date of such oral instruction is given.
- If within seven (7) days after receipt of a written notice from the S.O. requiring compliance of an instruction and the Contractor does not comply therewith, then the S.O. without prejudice to any other rights or remedies available to the SAMB under this Contract, undertake the work departmentally or employ and pay another Contractor or any other persons to execute any work whatsoever which may be necessary to give effect to such instruction. All costs and expenses incurred in connection with such employment (including On-Cost Charges), shall be deducted from any money due or to become due to the Contractor under this Contract, and failing which such deductions shall be recovered from the Performance Bond or as a debt due from the Contractor.
- 5.4 The Contractor shall be responsible for all costs and expenses incurred by the SAMB in carrying out the Works under clause 5.3 and On-Cost Charges (calculated by applying the Percentage of On-Cost Charges stated in Appendix hereto to the amount incurred). The SAMB shall be entitled to deduct such costs, expenses and On-cost Charges or any part thereof from any monies due or to become due to the Contractor under this Contract or to recover the same from the Performance Bond or as a debt due from the Contractor.

6.0 **SCOPE OF CONTRACT**

- 6.1 The Contractor shall upon and subject to this Contract, construct and complete the Works using materials, goods and workmanship of the quality and standards therein specified in accordance with best industry practice.
- 6.2 The Contractor shall also undertake any consequential work in relation to the construction and completion of Works on the Site i.e. removal/diversion of public sewer, water mains, electrical

mains, gas mains and telephone mains and the installation of permanent connections thereto shall be borne by the SAMB. The SAMB shall reimburse the Contractor for such costs by adding it to the Contract Sum PROVIDED THAT such cost have not already been included in the Contract Sum by way of a Provisional Sum or otherwise.

PROVIDED FURTHER any temporary connection shall be obtained by the Contractor with no additional cost to the SAMB for purpose of carrying out their work.

6.3 The Contractor shall also make good any defect, imperfection, shrinkage or any other fault whatsoever which may appear during the Defects Liability Period in accordance with clause 48 hereof.

7.0 CONTRACT SUM

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8.0 CONTRACT DOCUMENTS

8.1 Custody of the Contract Documents

- (a) The Contract shall be prepared in two (2) original copies. The original copies of the Contract shall remain in the custody of the S.O. and the Contractor.
- (b) Immediately after the execution of this Contract, the S.O. shall furnish to the Contractor without any charge (unless he shall have been previously furnished) with:
 - (i) two (2) copies of the Contract Drawings; and
 - (ii) two (2) copies of the Specification, unpriced Summary of Tender and Provisional Bills of Quantities (if any) and (if requested by the Contractor) one copy of the priced Summary of Tender and Provisional Bills of Quantities (if any) and one copy of the Schedule of Rates.
- (c) The S.O. shall, as and when necessary and without charge to the Contractor, furnish him with two (2) copies of such further working drawings or details as are reasonably necessary either to explain and amplify the Contract Drawings or the Specification (if any) or to enable the Contractor to construct and complete the Works in accordance with this Contract. PROVIDED THAT nothing contained in the said working drawings or details shall impose any obligation beyond those imposed by the Contract Documents.
- (d) The Contractor shall keep one copy of the Contract Drawings, the Specification, unpriced Summary of Tender and Provisional Bills of Quantities (if any), priced Summary of Tender and Provisional Bills of Quantities (if any) and other like documents referred to in sub-clause (c) hereof on the Site and the S.O. shall at alt reasonable times have access to the same.
- (e) Upon final payment being made pursuant to the issuance of Final Account and Payment Certificate under clause 31, the Contractor shall return to the S.O. all drawings, details, specifications, unpriced copy of Summary of Tender, Provisional Bill of Quantities (if any) and priced Summary of Tender and Provisional Bill of Quantities (if any).

(f) None of the documents hereinbefore mentioned shall be used by the Contractor for any purpose other than this Contract.

8.2 Sufficiency of Contract Documents

- (a) The Contract documents are to be taken as mutually explanatory of one another. The Contractor shall provide everything necessary for the proper execution of the Works until its completion according to the true intent and meaning of the Contract Documents taken together whether the true intent and meaning may or may not be particularly shown or described PROVIDED THAT it can be reasonably inferred therefrom.
- (b) If the Contractor shall find any discrepancy in or divergence between any two or more of the Contract Documents including a discrepancy or divergence between parts of any one of them, he shall immediately give to the S.O. a written notice specifying the discrepancy or divergence and the S.O. shall issue instructions in regard thereto PROVIDED ALWAYS that such discrepancy or divergence shall not vitiate this Contract.

9.0 REPRESENTATIONS, WARRANTIES AND UNDERTAKINGS OF THE CONTRACTOR

9.1 Representations and Warranties

The Contractor hereby represents and warrants to the SAMB that—

- (a) it is a corporation validly existing under the laws of Malaysia*;
- (b) the Contractor has obtained a valid registration with the Construction Industry Development Board:
- (c) it has the corporate power to enter into and perform its obligations under this Contract and to carry out the transactions and to carry on its business as contemplated by this Contract*;
- (d) it has taken all necessary corporate actions to authorize the entry into and performance of this Contract and to carry out the transactions contemplated by this Contract*;
- (e) as at the execution date, neither the execution nor performance by it of this Contract nor any transactions contemplated by this Contract will violate in any respect any provision of—
 - (i) its Memorandum and Articles of Association; or
 - (ii) any other document or agreement which is binding upon it or its asset*;
- (f) no litigation, arbitration, tax claim, dispute or administrative proceeding is presently current or pending or, to its knowledge, threatened, which is likely to have a material adverse effect upon it or its ability to perform its financial or other obligations under this Contract;
- (g) this Contract constitutes a legal, valid and binding obligation of the Contractor and is enforceable in accordance with its terms and conditions;
- (h) it has necessary financial and technical capability to undertake the Works,

^{*}applicable only if the Contractor is a company registered under the Companies Act 1965.

and the Contractor acknowledges that the SAMB has entered into this Contract in reliance on its representations and warranties as aforesaid.

9.2 Undertakings of the Contractor*

The Contractor undertakes that-

- (a) it shall comply with all requirements, statutory or otherwise, regulating or relating to the conduct, trade, business or profession of a contractor, and the Contractor shall be fully and solely liable for all costs incurred thereby;
- (b) it shall pay all taxes that may be imposed on the profits made in respect of this Contract in accordance with the applicable laws; and
- (c) it shall ensure that all his employees, including non-Malaysian personnel, comply with all relevant laws to which they are subject to including payment of income tax, which in respect thereto the Contractor shall make such deductions from the salaries of his employees as may be lawfully imposed by the relevant authority.

10.0 OBLIGATIONS OF THE CONTRACTOR

The Contractor shall—

- (a) construct, complete, test and commission the Works in accordance with the Specifications, Contract Drawings and any other documents specified in the Contract Documents;
- (b) perform the Works in a proper manner and in accordance with good management practice and to the best advantage of the SAMB;
- (c) take all appropriate measures expected of a contractor providing similar works to ensure that the Works comply with the requirements of this Contract;
- (d) perform the Works and discharge its obligations as contained in this Contract by exercising professional judgment and practice, requisite skill, care and diligence. In performing the Works, the Contractor shall provide well-outlined procedures in the form agreed by the SAMB for reporting and co-ordination purposes:
- (e) at all times perform the Works in such manner as will always safeguard and protect the SAMB's interest in relation to the Works and take all necessary and proper steps to prevent abuse or uneconomical use of facilities, if any, made available by the SAMB to the Contractor;
- (f) inform the SAMB immediately in writing of the occurrence of any factor or event, which is likely to affect the Works. Such notification shall not be construed as a discharge of any of the Contractor's obligations under this Contract;
- (g) provide and maintain throughout the Contract Period such number, categories of qualified and competent personnel necessary to perform the Works:
- (h) provide and maintain at its own cost and expense all equipment and materials necessary for the proper and effective performance of the Works;
- instruct and supervise its staffs and sub-contractor in carrying out the Works' repairs and other works in relation to the Works;

^{*}applicable only if the Contractor is a company registered under the Companies Act 1965.

- (j) make good any defect, imperfection, shrinkage or any other fault whatsoever which may appear during the Defects Liability Period; and
- (k) carry out any other obligations and responsibilities under this Contract.

11.0 INSPECTION OF SITE

- 11.1 The Contractor shall be deemed to have inspected and examined the Site and its surroundings and to have satisfied himself before submitting his tender as to the following:
- (a) the nature of the ground and subsoil;
- (b) the form and nature of the Site;
- (c) the extent and nature of the work, materials and goods necessary for the completion of the Works;
- (d) the means of communication with and access to the Site;
- (e) the accommodation he may require; and
- (f) in general to have obtained for himself all necessary information as to risks, contingencies and all circumstances influencing and affecting his tender.
- 11.2 Any information or document forwarded by the SAMB to the Contractor shall not relieve the Contractor of his obligations under the provisions of this clause.

12.0 PROGRAMME OF WORK

- 12.1 Within fourteen (14) days from the receipt of the Letter of Acceptance by the SAMB, the Contractor shall submit to the S.O for his approval -
- (a) a work programme for the carrying out of the Works (hereinafter referred to as "Work Programme") in such form and details as determined by the S.O. showing the detail activities of the Works so as to enable the SAMB to monitor the progress thereof; and
- (b) a general description in writing, of the arrangements and methods of construction which the Contractor proposes to adopt for the carrying out of the Works.
- 12.2 The S.O shall within (.....) days after receipt of the Contractor's programme:
 - (i) approve the Work Programme in writing; or
 - (ii) reject the Work Programme in writing with reasons and/or request modifications; and/or
 - (iii) request the Contractor to supply further information to clarify or substantiate the Work Programme or to satisfy the S.O as to its reasonableness having regard to the Contractor's obligations under the Contract,

PROVIDED THAT if none of the above actions is taken within the said period of (......) days the S.O shall be deemed to have approved the Work Programme as submitted.

12.3 The Contractor shall upon receipt from the S.O any request under clause 12.2(ii) or (iii) resubmit a modified Work Programme or provide further information as requested.

- 12.4 If at any time it should appear to the S.O that the actual progress of Works does not conform to the approved Work Programme referred to herein before the Contractor shall produce, at the request of the S.O., a revised Work Programme showing the modifications to the approved Work Programme necessary to ensure completion of the whole Works within the time for completion provided for in clause 39 hereof or extended time granted pursuant to clause 43 hereof.
- 12.5 The submission to and approval by the S.O or the S.O's Representative of such Work Programme or the furnishing of such particulars shall not relieve the Contractor of any of his duties or responsibilities under this Contract.

13.0 PERFORMANCE BOND/PERFORMANCE GUARANTEE SUM

- 13.1(a) The Contractor shall, on the date of the possession of Site, provide a Performance Bond or Performance Guarantee Sum as the case may be substantially in the form as in Appendix issued by an approved licensed bank or financial institution incorporated in Malaysia in favour of the SAMB for a sum equivalent to five percent (5%) of the total Contract Sum as specified in Appendix to secure the due performance of the obligations under this Contract by the Contractor. The Performance Bond shall remain valid and effective until twelve (12) months after the expiry of the Defect Liability Period or the issuance of the Certificate of Completion of Making Good Defects, whichever is the later.
 - (b) If the Contractor fails to submit the said Performance Bond as specified in sub-clause (a) above on the date of possession of site, then the Contractor shall be deemed to have opted for Performance Bond in the form of Performance Guarantee Sum as provided for under clause 13.2 hereof.
- 13.2 The Contractor may opt for a Performance Bond in the form of Performance Guarantee Sum in lieu of the Bank, Insurance or Finance Company Guarantee as specified in clause 13.1 hereof whereby deductions of ten percent (10%) shall be made from the first interim payments and subsequent interim payment until the total amount deducted aggregate to a sum equivalent to five (5) percent of the Contract Sum. The amount deducted shall be retained by the SAMB up to twelve (12) months after the expiry of the Defect Liability Period or the issuance of the Certificate of Completion of Making Good Defects, whichever is the later.
- 13.3 Notwithstanding anything contained in this Contract, the SAMB shall be entitled at any time to call upon the Performance Bond, wholly or partially, in the event that the Contractor fails to perform or fulfil its obligations under this Contract and such failure is not remedied in accordance with this Contract.
- 13.4 If a payment is made to the SAMB pursuant to any claim under the Performance Bond, the Contractor shall issue to the SAMB further security in the form of additional performance bond or bonds for an amount not less than the amount so paid to the SAMB on or prior to the date of such payment so that the total sum of the Performance Bond shall be maintained at all times at the value specified in clause 13.1(a).
- 13.5 The Performance Bond (or any balance thereof remaining for the credit of the Contractor) may be released or refunded to the Contractor on the completion of making good of all defects, shrinkages or other faults which may appear during the Defects Liability Period and upon the giving of the Certificate of Completion of Making Good Defects for the whole of the Works under clause 48.
- 13.6 Notwithstanding the above, in the event that this Contract is terminated under clause 51 hereof the said Performance Bond or any balance thereof shall be forfeited.

14.0 INDEMNITY IN RESPECT OF PERSONAL INJURIES AND DAMAGE TO PROPERTY

- 14.1 The Contractor agrees with the SAMB that—
- (a) it shall perform all of its obligations under this Contract at its own risk and releases, to the fullest extent permitted by law, the SAMB and their agents and servants from all claims and demands of every kind resulting from any accident, damage, injury or death arising from the carrying out of the Works except where such accident, damage, injury or death is caused or contributed to by any act or omission or negligence of the SAMB or its agents and servants. The Contractor expressly agrees that in the absence of any such act, omission or negligence as aforesaid the SAMB shall have no responsibility or liability whatsoever in relation to such accident, damage, injury or death;
- (b) it shall indemnify and keep indemnified the SAMB from and against all actions, suits, claims or demands, proceedings, losses, damages, compensation, costs (including legal cost), charges and expenses whatsoever to which the SAMB shall or may be or become liable in respect of or arising from—
 - (i) the negligent use, misuse or abuse by the Contractor or its personnel, servants, agents or employees appointed by the Contractor;
 - (ii) any loss or damage to property or injury of whatsoever nature or kind and howsoever or wherever sustained or caused or contributed to by carrying out of the Works by the Contractor to any person and not caused by the negligence or wilful act, default or omission of the SAMB, its agents or servants; or
 - (iii) any loss, damage or injury from any cause whatsoever to property or persons affected by the Works to the extent to which the same is occasioned or contributed to by the act, omission, neglect, breach or default of the Contractor or personnel, servants, agents or employees; and
- (c) the obligations under this clause shall continue after the expiry or earlier termination of this Contract in respect of any act, deed, matter or thing happening before such expiration or termination of this Contract.
- 14.2 The Contractor shall indemnify, protect and defend at its own cost and expense, the SAMB and its agents and servants from and against all actions, claims and liabilities arising out of acts done by the Contractor in the performance of this Contract.

15.0 INSURANCE AGAINST PERSONAL INJURIES AND DAMAGE TO PROPERTY

15.1 Taking of Insurance

- (a) Without prejudice to his liability to indemnify the SAMB under clause 14 hereof, the Contractor shall, as a condition precedent to the commencement of any work under this Contract, effect and maintain such insurances whether with or without an excess amount as specified in Appendix hereto as are necessary to cover the liability of the Contractor and all sub- contractors, whether nominated or otherwise.
- (b) Such insurance shall be for the purpose of personal injuries or death, damage or loss to property, movable or immovable, arising out of, or in the course of, or by reason of the execution of the Works and caused by any negligence, omission, breach of contract or default of the Contractor or any sub-contractor, whether nominated or otherwise, or of any servants or agents of the Contractor or of any such sub-contractor, whether nominated or otherwise. Where an excess amount is specified in Appendix, the Contractor shall bear the amount of such excess. The policy or policies of insurance shall contain a cross liability clause indemnifying each of the jointly insured against claims made by on him by the other jointly insured.

(c) Such insurance as referred to under sub-clause (a) hereof shall be effected with an insurance company as approved by the SAMB and maintained in the joint names of the SAMB and Contractor and all sub-contractors, whether nominated or otherwise. Such insurance shall cover from the period of the date of possession of site until the date of issuance of Certificate of Making Good Defects for any claim occasioned by the Contractor or any sub-contractor in the course of any operations carried out by the Contractor or any sub-contractor for the purpose of complying with his obligations under Clause 48 hereof.

15.2 Production of Policies

It shall be the duty of the Contractor to produce and shall deposit the relevant policy or policies of the insurance together with receipts in respect of premiums paid to the S.O., whether demanded or not.

15.3 **Default in Insuring**

If the Contractor fails to effect or renew such insurances as are required to be effected and maintained under this Contract, the SAMB or the S.O. on its behalf may effect or renew such insurance and shall be entitled to deduct a sum equivalent to the amount in respect of the premiums paid and On-Cost Charges (calculated by applying the 'Percentage for On-cost Charges' stated in Appendix hereto to the premiums paid), from any money due or to become due to the Contractor under this Contract or to recover the same from the Performance Bond or as a debt due from the Contractor.

15.4 Cancellation of Insurance

- (a) The Contractor shall ensure that any insurance policy effected hereto shall only be cancelled by the insurer after the expiry of thirty (30) days from the date of receipt by the SAMB of a written notice from the insurer advising of such impending cancellation PROVIDED THAT the Contractor has been issued with the Certificate of Making Good Defects in accordance with clause 48.
- (b) The Contractor shall not at any time permit or cause to be done any act, matter or thing which may result in any insurance effected by virtue of this Contract being vitiated or rendered void or voidable or whereby the rate of the premium on any insurance effected shall be liable to be increased.

15.5 Loss or Damage Occasioned by Insured Risk

(a) In the event of any damage or loss occurring during the performance of this Contract, the Contractor shall repair, replace or make good such damage or loss from the amount of insurance claimed, if sufficient, or if insufficient, using his own resources.

16.0 INDEMNITIES TO SAMB IN RESPECT OF CLAIMS BY WORKMEN

16.1 Workmen Compensation

- (a) The Contractor shall be liable for and shall indemnify and keep indemnified the SAMB and its officers or servants from all liabilities arising out of claims by any workman employed by the Contractor in and for the performance of this Contract for payment of compensation under or by virtue of the Workmen's Compensation Act 1952 and the Employee's Social Security Act 1969 or any other law amending or replacing such law and from all costs and expenses incidental and consequential thereto.
- (b) The Contractor shall effect and maintain throughout the Contract Period a "Workmen Compensation Insurance" or any other applicable insurance for its personnel, servants, agents or employees required under the laws of Malaysia.

17.0 EMPLOYEES' SOCIAL SECURITY ACT, 1969

17.1 Registration with SOCSO

Without prejudice to his liability to indemnify the SAMB under clause 16, the Contractor shall register or cause to register all local workmen employed in the execution of the Works and who are subject to registration under the Employee's Social Security Scheme ("the SOCSO Scheme") in accordance with the Employee's Social Security Act 1969 or any subsequent modification or re-enactment of the said Act. For the purpose of this sub-clause, the term "local workmen" shall include workmen who are Malaysian citizens and those who have permanent resident status.

17.2 Contribution to SOCSO

The Contractor shall submit the Code Number and Social Security Numbers of all the workmen registered under the SOCSO scheme to the S.O. for verification. The Contractor shall make payment of all contribution from time to time on the first contribution day on which the same ought to be paid and until the completion of this Contract and it shall be the duty of the Contractor to produce to the S.O. contribution statement or payment vouchers as evidence of payment of such contribution, whether demanded or not.

17.3 **Default in Complying with SOCSO**

If the Contractor fails to comply with the terms of this Clause, the SAMB or the S.O. on its behalf may without prejudice to any other remedy available to the SAMB for breach of any terms of this Contract:

- (a) withhold an amount from any money which would otherwise be due to the Contractor under this Contract and which in the opinion of the S.O. will satisfy any claims for compensation by workmen that would have been borne by SOCSO Scheme had the Contractor not made default in maintaining the contribution; and/or
- (b) pay such contributions as have become due and remain unpaid and deduct the amount of such contributions including On-Cost Charges (calculated by applying the Percentage of On-Cost Charges stated in Appendix to the contributions paid), from any money due or to become due to the Contractor under this Contract, and failing which such contributions shall be recovered from the Performance Bond or as a debt due from the Contractor.

18.0 **INSURANCE OF WORKS**

18.1 **Taking of Insurance**

(a) The Contractor shall in the joint names of the SAMB and the Contractor insure against loss and damage by fire, lightning, explosion, storm, tempest, flood, ground subsidence, bursting or overflowing of water tanks, apparatus or pipes, aircraft and other aerial devices or articles dropped therefrom, riot and civil commotion, all work executed and all unfixed materials and goods, delivered to, placed on or adjacent to the Works and intended therefore (but excluding temporary buildings, plant, tools and equipment owned or hired by the Contractor or any sub-contractor, nominated or otherwise) to the full value thereof (plus any amount which may be specifically stated in Appendix or elsewhere in the Contract Documents) and shall keep such work, materials and goods so insured until the completion of the whole of the Works, notwithstanding any arrangement for Sectional Completion or Partial Occupation by the SAMB under this Contract. Such insurance policy or policies shall provide expressly for payment in the first place to the SAMB of any insurance monies due under the policy or policies.

(b) The said insurance with or without an excess clause as specified in Appendix hereto shall be effected with an insurance company approved by the S.O. and it shall be the duty of the Contractor to produce to the S.O. the said policy or policies and the receipts in respect of the premium paid. Where an excess clause is specified in Appendix, the Contractor shall bear the amount of such excess.

18.2 **Default in Insuring**

If the Contractor fails to effect or renew such insurance as are necessary under this clause, the SAMB or the S.O. on its behalf may renew such insurance and pay the premium in respect thereof and deduct the amount so expended including On-Cost Charges (calculated by applying the 'Percentage of On-cost Charges' stated in Appendix to the premiums paid), from any money due or to become due to the Contractor under this Contract, and failing which such premium shall be recovered from the Performance Bond or as a debt due from the Contractor.

18.3 Payment of Insurance in the Event of any Loss/Damage

Upon the occurrence of any loss or damage to the Works or unfixed materials or goods prior to the date the Works has been certified as practically completed by the S.O. in the Certificate of Practical Completion, the Contractor shall notwithstanding that settlement of any insurance claim has not been completed, with due diligence restore, replace or repair the same, remove and dispose of any debris and proceed with the carrying out and completion of the Works. All money if and when received from the insurance under this clause shall be paid in the first place to the SAMB and then (less any such amounts as are specifically required in Appendix or elsewhere in the Contract Documents) be released to the Contractor by instalments on the certificate for payment issued by the S.O., calculated as from the date of receipt of the money in proportion to the extent of the work of restoration, replacement or repair and the removal and disposal of debris previously carried out by the Contractor. The Contractor shall not be entitled to any payment in respect of the work of restoration, replacement or repair and the removal and disposal of debris other than the money received under the said insurance.

18.4 Cancellation of Insurance Policy

The Contractor shall ensure that any insurance policy effected hereto shall only be cancelled by the insurer after the expiry of thirty (30) days from the date of receipt by the SAMB of a written notice from the insurer advising of such impending cancellation PROVIDED THAT the Contractor has been issued with the Certificate of Making Good Defects in accordance with clause 48.

19.0 SETTING OUT

- 19.1 The Contractor shall be responsible for the true and proper setting out of the Works and for the correctness of the positions, levels, dimensions and alignments of all parts of the Works and for the provisions of all necessary instruments, appliances and labour in connection therewith.
- 19.2 If at any time during the progress of the Works any error in the positions, levels, dimensions or alignments of any part of the Works is discovered, the Contractor shall at his own expense rectify such error unless such error is based on incorrect data supplied in writing by the S.O.'s Representative in which case the expense of rectifying shall be borne by the SAMB.
- 19.3 If at any time during the progress of the Works, any error shall appear or arise in the setting-out required to construct the Works or in the position, levels, dimensions or alignment of any part of the Works, the Contractor, on being required to do so by the S.O., shall at his own expense rectify such error to the satisfaction of the S.O. The checking of any setting out of or of any line or level by the S.O. shall not in any way relieve the Contractor of his responsibility for the correctness thereof and the Contractor shall carefully protect and preserve all things used in the setting-out required for the construction of the Works until the S.O. agrees that the said things may be abandoned.

19.4 The Contractor shall give to the S.O. without charge such information as may be required by the S.O. to enable him to check the setting-out required for the construction of the Works including interpreting any marks made by the Contractor for the purpose of setting out.

20.0 UNFIXED MATERIALS AND GOODS

Unfixed materials and goods delivered to, placed on or adjacent to the Site and intended for incorporation therein, shall not be removed except for use upon the Works, unless the S.O. has consented in writing to such removal. Where the S.O. has included the value of such materials or goods in any certificate in accordance with clause 28, under which the Contractor has received payment, such materials and goods shall become the property of the SAMB, but the Contractor shall remain responsible for loss or damage to the same.

21.0 COMPLIANCE WITH THE LAW

- 21.1 The Contractor shall comply in all respects (including the giving of all notices and the paying of all fees required) with any law, regulation or by-law, or any order or directive issued by any public authority or public service company (hereinafter referred to as "Statutory Requirements"), relating to the Works or, in the case of public authority or public service company, with those systems the same are or will be connected. The Contractor shall submit to the S.O. all approvals received by the Contractor in connection therein. The Contractor shall keep the SAMB indemnified against all penalties and liability of every kind for breach of any such Statutory Requirements.
- 21.2 If after the Date of Tender (as specified in Appendix) there is any change or amendment in any written law, regulations and by-laws which necessitates any variation to the Works, the Contractor shall, before making such variation, give to the S.O. a written notice specifying and giving the reason for such variation and apply for the S.O.'s instruction in respect of the matter.

22.0 **DESIGN**

22.1 Design Liability

- (a) Notwithstanding any design and specifications supplied by the SAMB, if the Contractor is required under this Contract to undertake the design of any part of the Works which is a stand alone design as determined by the SAMB, the Contractor shall ensure that such design is suitable, functional, safe, compatible and integrates with the design and specifications of the Works and it shall be undertaken, approved and endorsed by a competent and registered professional.
- (b) The Contractor shall submit to the S.O. all drawings, specifications, calculations and any other relevant information pertaining to the stand alone design for approval. No work shall commence without prior written consent of the S.O.
- (c) The Contractor shall be fully responsible and guarantee the SAMB that the stand alone design, integration, execution of the Works, materials and workmanship for the Works or part of the Works are independent of fault, suitable, functional, safe and compatible with the requirements of the SAMB.
- (d) The approval of the stand alone design by the S.O pursuant to sub-clause (b) shall not absolve the Contractor from its responsibility under sub-clause (c) and the Contractor shall be liable and shall fully indemnify and keep the SAMB indemnified for any design defects, damage, inadequacies or insufficiency of such design.

22.2 Design Guarantee Bond

- (a) The Contractor shall provide a Design Guarantee Bond for the stand alone design issued by an approved licensed bank or financial institution of the sum of Ringgit ... (RM...) amounting to 5% of the value of the said part of the Works substantially in the form as in Appendix [.....] upon or before the issuance of the Certificate of Practical Completion of the Works as a security for the Contractor's obligations and warranties under Clause 22.1. Such Design Guarantee Bond shall remain valid for a period of 5 years from the date of practical completion of the Works.
- (b) If any defect or damage shall occur to that particular part of the Works as a result of any defect, fault, insufficiency, imperfection, shrinkages or inadequacy in the stand alone design including workmanship, materials or equipment which has become defective arising from design fault then the approved licensed bank or financial institution issuing the Design Guarantee Bond pursuant to sub-clause (a) above shall pay to the SAMB, on demand by the SAMB in writing notwithstanding any objection by the Contractor or any third party, the sum of being equal to 5% of the value of the said part of the Works or such part thereof as may be demanded.
- (c) If the Design Guarantee Bond is not deposited with the SAMB in accordance with subclause (a) above, the SAMB shall have the right to claim from the Performance Bond the sum of Ringgit (RM...) being equal to 5% of the value of the said part of the Works or such part thereof as may be demanded.
- (d) If a payment is made to SAMB pursuant to clause (b), the Contractor shall ensure that further security in the form of an additional Design Guarantee Bond for an amount no less than the amount so paid to SAMB shall be issued to SAMB prior to or upon the date of such payment. If any of the issued Design Guarantee Bond were to expire prior to the validity period, a replacement Design Guarantee Bond shall be issued to SAMB on or prior to the date of expiry of the first mentioned Design Guarantee Bond in an amount not less than the amount of that Design Guarantee Bond.

23.0 EMPLOYMENT OF WORKMEN

23.1 Workmen

- (a) The Contractor shall employ, in the execution of this Contract, only Malaysian citizens as workmen.
- (b) If in any particular trade or skill required to complete the Works, the Contractor can show to the satisfaction of the S.O. that Malaysian citizens are not available, then the Contractor may employ non-Malaysian citizens subject to the approval of the SAMB.
- (c) The Contractor shall on the commencement of the Works furnish to the Jabatan Tenaga Kerja of the State in which this Contract is performed all particulars connected with this Contract and such returns as may be called for from time to time in respect of labour employed by him on for the execution of this Contract, in accordance with the requirements of the Employment Act 1955, Employment (Restriction) Act 1968, and Internal Security (Registration of Labour) Regulation 1960 or any subsequent modification or re-enactment thereof.
- (d) The Contractor shall maintain on the Site at all times during the progress of the Works an up to date register containing particulars of all workers employed by him.
- (e) The Contractor shall cause his sub-contractors (including 'labour only' sub-contractors) and Nominated Sub-Contractors to comply with the provisions of this clause.

23.2 Compliance with Employment Act 1955, etc.

In the employment of workmen for the execution of this Contract, the Contractor shall comply, and shall cause his sub-contractors (including "labour only" sub-contractors) and Nominated Sub-Contractors to comply with all the requirements of the Employment Act 1955, Employment (Restriction) Act 1968, Employee's Provident Fund Act 1951, the Industrial Relations Act 1967 and any other law relating to the employment of workmen, or any subsequent modification or reenactment thereof. PROVIDED THAT the Contractor shall not be entitled to any claim for additional costs and payments whatsoever in respect of his compliance with this clause.

23.3 Days and Hours of Working

No work shall be done on:

- (a) the weekly day of rest;
- (b) any public holiday which is recognised in the state where this Contract is being carried out; or
- (c) between the hours of six in the evening and six in the following morning;

without the written permission of the S.O. PROVIDED THAT when such written application of the Contractor is approved by the S.O., the Contractor shall comply fully with all the requirements of the Employment Ordinance 1955 in regard thereto or any subsequent modification or reenactment thereof and shall bear any costs for compliance therewith, and any extra costs incurred by the SAMB in connection with the supervision of the Works.

23.4 Wages Books and Time Sheets

- (a) The Contractor shall keep and shall cause his sub-contractors (including "labour only" sub-contractors) and Nominated Sub-Contractors to keep proper wages books and time sheets showing wages paid to and the time worked by all workmen employed by him and his sub-contractors as aforesaid in and for the performance of this Contract.
- (b) The Contractor shall produce such wages books and time sheets on demand for inspection by any persons duly authorised by the S.O.
- (c) The Contractor shall furnish to the S.O. or S.O.'s Representative such information relating to the wages and conditions of employment of such workmen as the S.O. may from time to time require.

23.5 Default in Payment of Wages

In the event of default in the payment of —

- (a) any money in respect of wages; and/or
- (b) payment in respect of Employees Provident Fund Contributions,

of any workmen employed by the Contractor or his sub-contractors (including "labour only" sub-contractors) and Nominated Sub-contractors in and for the performance of this Contract, which a

claim has been filed with the Department of Labour, then the S.O. shall make payment to the Director General of Labour and/or Employees Provident Fund, as the case may be, out of any monies at any time due to the Contractor under this Contract and such payment shall be deemed to be a payment made to the Contractor by the SAMB under and by virtue of this Contract.

23.6 Discharge of Workmen

- (a) The Contractor shall employ in and about the execution of the Works only such persons as are of good character, careful, skilled and experienced in their respective vocations and trades.
- (b) The S.O. shall be at liberty to object to and require the Contractor to remove immediately from the Site any person employed by the Contractor in or about the execution of the Works who in the opinion of the S.O. misconducts himself or is incompetent or negligent in the proper performance of his duties. Such person shall not again be employed upon the Works without the prior written permission of the S.O.
- (c) Any person so removed from the Works shall be replaced without delay by a substitute approved by the S.O. PROVIDED THAT the Contractor shall not be entitled to any claim for any expense whatsoever incurred by him in respect of any direction given by the S.O. under this clause.

24.0 VARIATIONS

- 24.1 The S.O. may issue instructions requiring a Variation in a form of a Variation Order. No variation required by the S.O. shall vitiate this Contract. Upon the issuance of such Variation Order, the Contractor shall forthwith comply with the Variation Order issued by the S.O.
- 24.2 The term 'Variation' means a change in the Contract Document which necessitates the alteration or modification of the design, quality or quantity of the Works as described by or referred to therein and affects the Contract Sum, including:
 - (a) the addition, omission or substitution of any work;
 - (b) the alteration of the kind or standard of any of the materials, goods to be used in the Works; or
 - (c) the removal from the Site of any work executed or materials or goods brought thereon by the Contractor for the purposes of the Works other than work, materials or goods which are not in accordance with this Contract.
- Any variation made under this clause shall not relieve the Contractor from his obligations under clause 22.1(c).

25.0 VALUATION OF VARIATION

- 25.1 All variations instructed in writing by the S.O. in accordance with clause 24 hereof shall be measured and valued by the S.O. The valuation of Variations, unless previously or otherwise agreed, shall be made in accordance with the following rules:
 - a) The rates in the Schedule of Rates, after adjustment if necessary as provided in Clause 26.2 hereof, shall determine the valuation of work (other than work involving a whole addition of any item of work priced in the Summary of Tender, which shall be valued in accordance with rule (b) hereof) of similar character and executed under similar conditions as work priced therein;

- b) The said rates, where work is not of similar character or executed under similar conditions as aforesaid, shall be the basis of rates for the same, so far as may be reasonable, failing which a fair valuation thereof shall be made by the S.O.;
- Where work involves the addition of the whole of any similar item of work and executed under similar conditions a
- d) s work priced in the Summary of Tender, the price of such item of work in the Summary of Tender shall be the basis of the valuation of the said item of work. The rates in the Schedule of Rates shall determine the valuation of work omitted; provided that if the omission involves the omission of the whole of any item of work in the Summary of Tender, the price of such item of work in the Summary of Tender shall be the basis of valuation of the item omitted. Omission of the whole of an item of work in the Summary of Tender shall mean omission of the whole of the work where it is not required and shall not apply to the substitution of any work in the Summary of Tender.
- 25.2 Where work cannot properly be measured or valued, the S.O. may allow daywork price as specified in Appendix. Unless otherwise provided in the Bills of Quantities, the daywork prices for the purpose of this Contract shall be taken to mean the actual net cost to the Contractor of his materials, plant and labour for the work concerned. The Contractor shall be paid daywork prices, plus fifteen percent (15%), which shall include for the cost of all ordinary plant, tools, scaffolding, supervision and profit. PROVIDED ALWAYS that as a condition precedent to any right to any payment the Contractor shall produce vouchers, receipts and wage books specifying the time for labour and plant employed and materials used to the S.O. not exceeding seven (7) days after the work shall have been done.
- 25.3 The amount of variations shall be certified by the S.O. and added to or deducted from the Contract Sum as the case may be and the amount shall be adjusted accordingly.

26.0 SUMMARY OF TENDER

- 267 The Summary of Tender, Provisional Bills of Quantities (if any), shall be the basis of the Contract Sum. Any error in description or quantity or omission of Works from the Summary of Tender and Provisional Bills of Quantities (if any) shall not vitiate this Contract but shall be rectified and the amount in respect of such rectification shall be added to or deducted from the Contract Sum as the case may be.
- 26.2 The SAMB reserves the right to adjust the rates in the Schedule of Rates and the prices in the Summary of Tender submitted by the Contractor to ensure their reasonableness before acceptance of tender and the decision of the SAMB shall be final.
- 26.3 Any adjustment of the prices in the Summary of Tender by the preceding clause 26.2 above and any arithmetical error in the Summary of Tender shall before the signing of this Contract be so adjusted and rectified so that the total amount in the Summary of Tender shall correspond to the lump sum amount tendered by the Contractor in the Form of Tender. Provided always the lump sum amount shown in the Form of Tender shall remain unaltered. Provided further that Provisional and Prime Cost Sums shall not be subjected to such adjustment of prices.
- Subject to the Clauses 8.2(a) and 11 hereof, the quality and quantity of the Works included in the Contract Sum shall be to be that which is shown upon the Contract Drawings or described in the Specification and/or the Summary of Tender. Where quantities of work are given in the Contract Drawings and/or the Specification and/or the Summary of Tender for the purpose of tendering, unless otherwise stated, these shall be deemed to form part of this Contract and the method of measurement of and payment for the same shall be made in accordance with the rules as set down in the Contract Drawings and/or the Specification and/or Summary of Tender.

Provisional Quantities

- Where the quantities of Works are stated as "provisional" in the Bills of Quantities, such quantities are the estimated quantities which shall not be taken as the actual and correct quantities of Works to be executed by the Contractor in the fulfilment of his obligations under the Contract. The amount to be paid to the Contractor in respect of such Works upon completion of this Contract shall be ascertained by remeasurement of the work as it is actually executed. The rates in the "provisional" Bills of Quantities shall determine the valuation of the Works of similar character and executed under similar conditions as work priced therein. The said rates, where work is not of similar character or executed under similar conditions as aforesaid, shall be the basis of rates for the same so far as maybe reasonable, failing which a fair valuation thereof shall be made by the S.O..
- 26.5 For the purpose of clause 26.5, the amount to be paid to the Contractor shall be set off against the amount for such work in the Bills of Quantities, and the balance shall be added to or deducted from the Contract Sum as the case may be.

27.0 MEASUREMENT OF WORKS

- 27.1 The S.O. shall, when he requires any part or parts of the Works to be measured or remeasured for the purposes of clauses of Variation under clause 24 and provisional quantities under clause 26.5, give reasonable notice to the Contractor who shall attend or send a qualified agent to assist the S.O. or S.O.'s Representative in making such measurement and shall furnish all particulars required by the S.O.. Should the Contractor fail to attend or neglect or omit to send such agent, then the measurement made by the S.O. or approved by him shall be taken to be the correct measurement of the work.
- 27.2 Upon the completion of the measurement pursuant to clause 27.1, the S.O. shall supply the Contractor with such measurement in respect of the said parts.

28.0 PAYMENT TO CONTRACTOR AND INTERIM CERTIFICATES

- 28.1 When the Contractor has executed work including delivery to or adjacent to the Works of any unfixed materials or goods intended for incorporation into the Works in accordance with the terms of this Contract and their total value of work thereof has reached the sum referred to in Appendix, the S.O. shall at that time make the first valuation of the same.
- 28.2 Thereafter, once (or more often at the discretion of the S.O.) during the course of each succeeding month the S.O. shall make a valuation of the works properly executed and of unfixed materials and goods delivered to or adjacent to the Site, provided the total value of work properly executed and the value of unfixed materials and goods as specified in clause 28.4 hereof, delivered to the Site intended for incorporation into the Works in each subsequent valuation shall not be less than the sum referred to in Appendix.
- 28.3 Within fourteen (14) days from the date of any such valuation being made and subject to the provision mentioned in clause 28.1, the S.O. shall issue an Interim Certificate stating the amount due to the Contractor from the SAMB. PROVIDED THAT the signing of this Contract shall not be a condition precedent for the issue of the first Interim Certificate (and no other) so long as the Contractor has returned the Letter of Acceptance of Tender duly signed and has deposited with the S.O. or the SAMB the relevant insurance policies under clauses 15 and 18 hereof.
- 28.4 The amount stated as due in an Interim Certificate shall, subject to any agreement between the Parties as to payment by stages, be the estimated total value of the work properly executed and up to ninety percent (90%) of the value of the unfixed materials and goods delivered to or adjacent to the Site intended for incorporation into the permanent Works up to and including the date the valuation was made, less any payment (including advance payment) previously made

paid under this Contract. PROVIDED THAT such a certificate shall only include the value of the said unfixed materials and goods as and from such time as they are reasonably and properly and not prematurely delivered to or adjacent to the Site and adequately protected against weather, damage or deterioration.

- 28.5 This clause shall not apply to any unfixed materials and goods which are supplied and delivered by Nominated Suppliers for which payment shall be made for the full value of the unfixed materials and goods.
- 28.6 Within a number of days as stated in Appendix (or if none stated then within thirty (30) days of the issue of any such Interim Certificate), the SAMB shall make a payment to the Contractor as follows:
 - (a) where the Performance Bond is in the form of a Banker's, Insurance or Finance Company Guarantee, payment shall be made on the amount certified as due to the Contractor in the said Interim Certificate; or
 - (b) where the Performance Bond is in the form of a Performance Guarantee Sum, payment of ninety percent (90%) on the amount certified as due to the Contractor shall be made with the remaining ten percent (10%) being retained by the SAMB as a Performance Guarantee Sum. PROVIDED THAT when the sum retained is equivalent to five percent (5%) of the Contract Sum then in any subsequent Certificate, payment shall be made on the full amount certified as due to the Contractor.

29.0 ADJUSTMENT OF CONTRACT SUM

The amount to be added to or deducted from the Contract Sum in respect of expense or loss due to fees and charges in relation to the supply of water and electricity and permanent connections to water, electricity, telephone and sewerage mains under clause 6.2, variations under clause 24, rectification of errors in Bill of Quantities under clause 26.3, fluctuation of price under clause 30, payment of P.C. Sums and Provisional Sums under clause 34, opening up work for inspection and testing of materials or goods and executed work under clause 35.2, loss and expense under clause 44 and costs of disposal of fossils, *etc.* under clause 65 hereof, shall be certified by the S.O.

30.0 FLUCTUATION OF PRICE

In accordance with the Special Provisions to the Conditions of Contract for Fluctuation of Price as contained in Appendix (if applicable), the amount payable by the SAMB to the Contractor upon the issue by the S.O. of an Interim Certificate under clause 28 hereof shall be increased or decreased accordingly. The net total of any such increases or decreases shall be given effect to in determining the Contract Sum.

31.0 FINAL ACCOUNT AND PAYMENT CERTIFICATE

As soon as is practicable but not later than three (3) months after the issuance of the Certificate of Practical Completion, the Contractor shall submit full particulars complete with receipts, vouchers records that would substantiate the Contractor's claim under clause 44 together with any documents, supporting vouchers and any explanation and calculations including documents relating to the accounts of Nominated Sub-Contractors or Nominated Suppliers, which may be necessary to enable the Final Account to be prepared by the S.O. PROVIDED ALWAYS the Contractor had given the notice of claim in writing within the stipulated time or times in the said provisions.

- 31.2 If the Contractor fails to submit full particulars of all claims within the stipulated period, the S.O. shall forthwith make the assessment based on the available documents submitted by the Contractor for the purpose of the Final Account. The SAMB shall be discharged from all liabilities in connection with the claims.
- 31.3 Within three (3) months after the expiry of the Defects Liability Period for the whole of the Works or three (3) months after the issue of the Certificate of Completion of Making Good Defects under clause 48 hereof, whichever is the later, the S.O. shall issue the Final Certificate.
- 31.4 The Final Certificate shall be supported by documents, and full particulars complete with receipts, vouchers records showing the S.O.'s final valuation of Works and any amount determined in clause 31.1 in accordance with the terms of this Contract. After setting out or allowing for all payments or other expenditure of the SAMB or any permitted deductions made by the SAMB or the S.O. on its behalf, the Final Certificate shall state any final balance due from the SAMB to the Contractor or from the Contractor to the SAMB, as the case may be, which shall thereupon become the debt payable. Such certificate shall also take account of any outstanding permitted deductions not yet made by the SAMB under the terms of this Contract whether by way of liquidated damages or otherwise.
- No final payment due to the Contractor under the Final Certificate, shall be made unless and until the Contractor shall have satisfied the S.O. by means of a Statutory Declaration made by or on behalf of the Contractor to the effect that the workmen who have been employed by the Contractor on the Works including workmen employed by sub-contractors, whether nominated or otherwise (including "labour only" sub-contractors) have received all wages due to them in connection with such employment, and that all dues or contributions under the Employment Act 1955, the Employee's Social Security Act 1969, the Employee's Provident Fund Act 1965 and any other laws relevant to the employment of workmen, have been paid.

32.0 EFFECT OF S.O.'S CERTIFICATES

No certificate of the S.O. under any provision of this Contract shall be considered as conclusive evidence as to the sufficiency of any work, materials or goods to which it relates, nor shall it relieve the Contractor from his liability to amend and make good all defects, imperfections, shrinkages, or any other faults whatsoever as provided by this Contract. In any case, no certificate of the S.O. shall be final and binding in any dispute between the SAMB and the Contractor if the dispute is brought whether before an arbitrator or in the Courts.

33.0 DEDUCTION FROM MONEY DUE TO CONTRACTOR

The SAMB or the S.O. on its behalf shall be entitled to deduct any money owing from the Contractor to the SAMB under this Contract from any sum which may become due or is payable by the SAMB to the Contractor under this Contract or any other contracts to which the SAMB and Contractor are Parties thereto. The S.O. in issuing any certificate under clauses 28 and 31, shall have regard to any such sum so chargeable against the Contractor, provided always that this provision shall not affect any other remedy to which the SAMB may be entitled for the recovery of such sums.

34.0 PRIME COST / PROVISIONAL SUMS

In respect of any and every Prime Cost or P.C. Sum provided in the Contract, the amount due to any Contractor shall be determined by deducting the said Prime Cost or P.C. Sum and the relevant profit and/or attendance charges from the Contract Sum and substituting for the same with the actual amount due to relevant Nominated Sub- Contractor or Nominated Supplier as valued in accordance with the relevant sub-contract and the sums due to any Contractor by way

- of profit and/or attendance charges at the rates or prices stipulated in the Contract Documents (if any).
- 34.2 The Provisional Sum may be expended at such times and in such amounts as the S.O. may direct. Such sum if not used either wholly or in part shall be deducted from the Contract Sum. The value of works which are executed by the Contractor in respect of Provisional Sums shall be ascertained in accordance with clause 25 hereof. The said value of such work executed by the Contractor shall be set off against all such Provisional Sums and the balance shall be added to or deducted from the Contract Sum as the case may be.
- Any work to be executed, or materials or goods to be supplied for which Provisional Sums are provided in the Bills of Quantities may, if the S.O. so decides, be treated as P.C. Sum items and shall be dealt with in accordance with clause 34.1.
- Where the Contractor in the ordinary course of his business directly carries out works for which P.C. Sums are provided in the Bills of Quantities and where such works are set out in Appendix hereto and the S.O. is prepared to accept tenders from the Contractor for such works the Contractor shall be permitted to tender for the same or any of them without prejudice to SAMB's right to reject the lowest or any tender. If the tender of the Contractor for any work included in the P.C. Sum is accepted, such tender shall be held to include the profit and attendance charges, and the Contractor shall not be entitled to the profit and attendance charges as contained in the Bills of Quantities notwithstanding any provision to the contrary under clause 34.1.

35.0 MATERIALS, GOODS AND WORKMANSHIP

- 35.1 All materials, goods and workmanship shall be of the respective kinds and standards described in the Specification and of good quality and in accordance with the standard of the workmanship in the industry. The Contractor shall upon the request of the S.O. furnish him with the relevant certificates and/or vouchers to prove that the materials and goods comply with the Specification.
- The Contractor shall, entirely at his own cost, provide samples of materials and goods for testing purposes. The Contractor shall, when instructed by the S.O. to open up for inspection any work covered up, or arrange for or carry out any test of any materials or goods (whether or not already incorporated in the Works) or of any executed work which the S.O. may in writing require and the cost of such opening up or testing (together with the cost of making good in consequence thereof) shall be added to the Contract Sum unless provided for in the Bills of Quantities by way of Provisional Sums or otherwise or unless the inspection or test shows that the work, materials or goods are not in accordance with this Contract.
- 35.3 The Contractor shall pay all duties and taxes which may be imposed by law, such as customs duties and sales tax, on all materials, goods and equipment, whether purchased or imported in the Contractor's name or his agent, which are incorporated in the Works or used directly in the construction, completion or maintenance of the Works.
- 35.4 Except where otherwise specified, the Contractor shall pay all tonnage and other royalties, rent fees and other payments or compensation (if any) for getting stone, sand, gravel, clay or other materials required for the Works.

36.0 INSPECTION AND TESTING OF MATERIALS, GOODS AND EQUIPMENT

36.1 Further to the Contractor's obligations under clause 10, the Contractor shall submit to the S.O. for his approval, proposals for inspecting the design and setting out of the Works and testing the materials and workmanship to ensure that the Contractor's obligations under the Contract are fulfilled.

- 36.2 The Contractor shall carry out the inspection and tests approved under clause 36.5 or elsewhere in the Contract and such further tests as the S.O. may reasonably require, including to open up for inspection any work covered up or to carry out any test of any materials or goods (whether or not already incorporated in the Works or any executed Works).
- 36.3 The S.0 may issue instructions to the Contractor to remove from the Site or rectify any work, goods which are not in accordance with this Contract at his own cost.
- 36.4 The Contractor shall, as may be required by the S.O. from time to time, provide such assistance, instruments, machines, labour and materials as are normally required for the purpose of examining, measuring and testing of any work, as well as and the quality, weight or quantity of the materials used, and shall supply samples of materials before incorporation in the Works for testing.
- 36.5 Unless the Contract otherwise provides, the cost of making any test shall be borne by the Contractor if such test is:
 - (a) proposed by the Contractor; or
 - (b) clearly intended by or provided for in the Contract.
- 36.6 Notwithstanding anything in clause 36.5, if the Contractor carries out any further test as required by the S.O. pursuant to clause 36.2 and the result of such test shows the workmanship or materials is not in accordance with the provisions of the Contract, then the cost of such test shall be borne by the Contractor. But if the result of such test shows the workmanship or materials comply with the provisions of the Contract, then the cost of such test shall be borne by the SAMB.

37.0 CONSTRUCTIONAL PLANT, EQUIPMENT, VEHICLES AND MACHINERIES

- 37.1 The Contractor shall pay all port dues including (but not by way of limitation) wharfage dues, pilotage fees, anchorage, berthage and mooring fees, quarantine dues, loading porterage and overtime fees for constructional plant, equipment, vehicles and machineries for use directly in connection with the construction, completion of the works brought into and despatched from Malaysia by the Contractor (or in his name by agents).
- 37.2 The Contractor shall furnish to the S.O. all such shipping documents, invoices and other documentation as may be required by the Customs Authorities in connection with the importation of goods, materials, constructional plant, equipment, vehicles and machineries.
- 37.3 In the case of constructional plant, equipment, vehicles, and machineries imported on the Contractor's behalf by importing agents and the like both the shipping documents and the invoices of the original suppliers or manufacturers must indicate clearly that the consignment is for the Contractor's account.
- 37.4 The procedure in respect of the requirements of the foregoing shall be determined by the Customs Authorities. The Contractor shall make written application to the S.O. and shall provide the relevant documentation of all constructional plant, equipment, vehicles and machineries to be imported into Malaysia not less than forty-five (45) days before the arrival of the said constructional plant, equipment, vehicles and machineries.
- 37.5 The Contractor shall pay all charges and other expenses in connection with the landing and shipment of all constructional plant materials and other things of whatsoever nature brought into or despatched from Malaysia for the purpose of the Contract.
- 37,6 The Contractor shall make his own arrangement in obtaining clearance through the Customs of constructional plant, equipment, vehicles and machineries. However, if required, the S.O.'s assistance may be sought.

37.7 Under this Contract, the Contractor shall be required to furnish all lists of constructional plant, equipment, vehicles and machineries to the S.O. whether the constructional plant, equipment, vehicles and machineries are hired or acquired.

38.0 POSSESSION OF SITE

- 38.1 No work under this Contract shall commence unless and until the Performance Bond stipulated under clause 13 and such insurance policy as specified under clauses 15 and 18 shall have been deposited with the SAMB, PROVIDED THAT for the purposes of this clause only (but for no other), if the Contractor shall produce to the SAMB the cover note of the said insurance policy and the receipt of premium paid, it shall be a sufficient discharge of his obligations under this clause.
- 38.2 Unless the Contract Documents shall otherwise provide, possession of the Site as complete as may reasonably be possible but not so as to constitute a tenancy, shall be given on or before the "Date for Possession" stated in the Letter of Acceptance to the Contractor who shall thereupon and forthwith commence the Works (but subject to clause 38.1) and regularly and diligently proceed with and complete the Works on or before the Date for Completion as stated in Appendix.
- 38.3 The "Date for Completion" of the Works as referred to under clause 39 hereof shall be calculated from the said "Date for Possession". PROVIDED ALWAYS that the possession of Site may be given in section or in parts and any other restrictions upon possession of the Site shall be stated in the Appendix to these Conditions or in the Contract Documents.
- In the event of any delay in giving possession of the Site from the "Date for Possession" as stated in Letter of Acceptance or delay in giving any section or part of the Site as provided in clause 38.3, the S.O. may issue instructions in regard to the revision of the "Date for Possession" and the "Date for Completion" shall be appropriately revised under clause 43.1(h) hereof, but the Contractor shall not be entitled to claim for any loss or damage caused by such delay in giving possession of the Site, nor shall he be entitled to terminate this Contract.
- In the event that the giving of the possession of the whole Site is delayed beyond ninety (90) days of the "Date for Possession" stated in the Letter of Acceptance, the S.O. shall give written notice to the Contractor of the causes of such delay. Upon the receipt of the said written notice issued by the S.O., the Contractor may, inform the S.O. in writing of its decision within fourteen (14) days of receipt of the said notice either to:
 - (a) agree to proceed with the Works when the Site is subsequently made available, in which case clause 38.4 shall apply in particular, the Contractor shall not be entitled to claim for any loss or damage caused by such delay in giving possession of the Site, or
 - (b) terminate this Contract, without prejudice to any other rights or remedies that the SAMB and the Contractor may have as a result of the termination.
- 38.6 In the event that the giving of possession of any section or part of the Site (whether provided for in clause 38.3 or otherwise) is delayed beyond ninety (90) days from the Date of Possession stated in the Appendix or the date the Contractor is scheduled to commence work on that section or part of the Works in accordance with the approved programme of Works as referred to in clause 12 hereof as the case may be, then the S.O. shall give written notice to the Contractor of the causes of such delay. Upon receipt of the said written notice, the Contractor may inform the S.O. in writing, within fourteen (14) days of receipt of the said notice of its decision either to:
 - (a) agree to proceed with the Works when the section or part of the Site is subsequently made available, in which case sub-clause 38.5(a) above shall apply and in particular, the Contractor shall not be entitled to claim for any loss or damage caused by such delay as aforesaid; or

(b) request for S.O.'s instruction to omit the relevant section or part of the Works from the Contract. If the S.O. agrees to such request then the relevant section or part of the Works shall be duly omitted and deemed to be a variation to the Contract. Such variation shall not vitiate this Contract. If the S.O. does not agree to such request as aforesaid, then the Contractor shall be entitled to claim for any loss and/or expenses caused by and in respect of such delay beyond ninety (90) days as aforesaid.

39.0 COMPLETION OF WORKS

- 39.1 Subject to clauses 38.3 and 41, the Contractor shall complete the whole of the Works on or before the "Date for Completion" as stated in the Appendix or such extended time as may be allowed under clause 43 hereof.
- 39.2 If the Contractor considers that the works have achieved practical completion, the Contractor shall notify the S.O. in writing to that effect.
- 39.3 Within 14 days of receipt of such notice, the S.O. shall carry out testing/ inspection of the Works. Pursuant to such inspection/testing, the S.O. shall
 - (a) issue the Certificate of Practical Completion to the Contractor if in his opinion the whole Works have reached Practical Completion and have satisfactorily passed any inspection/test carried out by the S.O. The date of such completion shall be certified by the S.O. and such date shall be the date of the commencement of the Defects Liability Period as provided in clause 48 hereof; or
 - (b) give instruction to the Contractor specifying all defective works which are required to be completed by the Contractor before the issuance of the Certificate of Practical Completion.
- 39.4 If the S.O. has given instruction pursuant to clause 39.3(b), no Certificate of Practical Completion shall be issued to the Contractor until the Contractor has effectively carried out the remedial work within reasonable period to the satisfaction of the S.O.
- 39.5 The Works shall not be regarded as practically complete unless it has fulfilled the following:
 - (a) the Works have been completed in accordance with the terms and conditions of this Contract:
 - (b) the SAMB can have full, proper and beneficial use of the Works for their intended purpose, notwithstanding that there may be works of a very minor defects PROVIDED THAT such works do not prevent or diminish the full, proper and beneficial use as aforesaid;
 - (c) the Works have passed any commissioning tests required in the Contract Document;
 - (d) the Works shall be made available to the SAMB in a condition fit for occupation; and
 - (e) all the essential services, including access roads, landscape, car parks, drains, sanitary, water and electricity installation, fire hydrant, sewerage and refuse disposal equipment and fire lifts specified in this Contract.
- 39.6 When the whole of the Works have reached practical completion to the satisfaction of the S.O., the date of such completion shall be certified by him and such date shall be the date of the commencement of the Defects Liability Period as provided in clause 48 hereof.

40.0 DAMAGES FOR NON-COMPLETION

- 40.1 If the Contractor fails to complete the Works by the Date for Completion or within any extended time granted pursuant to clause 43, the S.O. shall forthwith issue a Certificate of Non-Completion to the Contractor.
- 40.2 Without prejudice to the SAMB's right to terminate this Contract, when the S.O. issues the Certificate of Non-Completion, the SAMB shall be entitled to recover from the Contractor, Liquidated and Ascertained Damages calculated at the rate stated in Appendix 1 from the period of the issuance of the Certificate of Non-Completion to the date of issuance of Certificate of Practical Completion or the date of termination of this Contract. The S.O. may deduct such Liquidated and Ascertained Damages from any money due or to become due to the Contractor, failing which such damages "shall be recovered from the Performance Bond or as a debt due from the Contractor. The S.O. shall inform the Contractor in writing of such deduction.
- 40.3 The Liquidated and Ascertained Damages stated in Appendix 1 shall be deemed to be a reasonable amount of loss which the SAMB will suffer in the event that the Contractor is in breach of this clause. The Contractor by entering into this Contract agrees to pay to the SAMB the said amount(s) if the same become due without the need of the SAMB to prove his actual damage or loss.
- 40.4 The payment or deduction of such Liquidated and Ascertained Damages shall not relieve the Contractor from his obligation to complete the Works or from any of its obligations and liabilities under the Contract.

41.0 SECTIONAL COMPLETION

- 41.1 Where different completion dates for different sections or parts of the Works are stated and identified in Appendix or elsewhere in the Contract Documents and different and separate Liquidated and Ascertained Damages are provided for each section or part of the Works, the provisions of this Contract in regard to:
 - (a) Certificate of Practical Completion;
 - (b) Delay and Extension of Time;
 - (c) Liquidated Ascertained Damages; and
 - (d) Defects Liability Period,

but not Insurance of the Works under clause 18, Performance Bond under clause 13 and final payment on the Final Certificate under clause 31 hereof shall, in the absence of any express provision to the contrary elsewhere in the Contract Documents apply as if each such section or part was the subject of a separate and distinct contract between the SAMB and the Contractor.

41.2 For the avoidance of doubt, nothing contained in clause 41.1 shall entitle the Contractor to the release of the whole or any part of the Performance Bond or Performance Guarantee Sum deposited by him. The Performance Bond or Performance Guarantee Sum shall be released or be refunded only upon the issue of the Certificate of Making Good Defects of the whole of the Works or in respect of the last section of the Works, as the case may be.

42.0 PARTIAL OCCUPATION/TAKING OVER BY SAMB

42.1 If at any time before the whole of the Works have reached practical completion pursuant to clause 39, the SAMB with the consent of the Contractor (which consent shall not be unreasonably withheld) shall take possession of and occupy any part or parts of the same (any such part being hereinafter in this Clause referred to as 'the relevant part'), then notwithstanding anything expressed or implied elsewhere in this Contract.

Certificate of Partial Occupation

(a) within seven (7) days from the date on which the SAMB shall have taken possession of the relevant part, the S.O. shall issue a Certificate of Partial Occupation in respect of the relevant part stating the estimated value of the said relevant part, and for all the purposes of this Clause (but for no other) the value so stated shall be deemed to be the total value of the said relevant part;

Defects Liability Period

(b) for the purposes of clauses 39 and 48 hereof, the relevant part shall be deemed to have reached practical completion and the Defects Liability Period in respect of the relevant part shall be deemed to have commenced on the date on which the SAMB shall have taken possession and occupied. thereof;

Certificate of Making Good Defects

(c) at the end of the Defects Liability Period of the relevant part and if in the opinion of the S.O. any defect, imperfection, shrinkage or any other fault whatsoever in respect of the relevant part which he may have required to be made good under clause 48.1, shall have been made good by the Contractor, the S.O. shall issue a certificate to that effect;

Reduction of Liquidated Ascertained Damages

(d) if, before the time of completion of the whole of the Works or, if applicable any section, a Certificate of Practical Completion has been issued for any part of the Works or of a section, the rate of the liquidated and ascertained damages for delay in completion of the remainder of the Works or of that section shall, for any period of delay after the date stated in such Certificate of Practical Completion, be reduced in the proportion which the value of the part so certified bears to the value of the whole of the Works or section, as applicable;

Insurance of the Works

(e) notwithstanding the partial occupation by the SAMB of the relevant part the Contractor shall insure and keep insured the Works in the manner as stipulated under clause 18 and the Contractor shall give notice to the insurer of such partial occupation; and

Performance Bond Not Affected/

(f) it is expressly agreed that nothing contained in the preceding paragraphs shall entitle the Contractor to the release of the Performance Bond or any part thereof deposited by him under clause 13 hereof, the intention being that the said Performance Bond or any part thereof shall be released or refunded only upon the completion of making good all defects, imperfections, shrinkages or other faults which may appear during the Defects Liability Period and upon the giving of the Certificate of Completion of Making Good Defects for the whole of the Works under clause 48 hereof.

43.0 DELAY AND EXTENSION OF TIME

- 43.1 Upon it becoming reasonably apparent that the progress of the Works is delayed, the Contractor shall forthwith give written notice to the S.O as to the causes of delay and relevant information with supporting documents enabling the said officer to form an opinion as to the cause and calculation of the length of delay. If in the opinion of the S.O the completion of the Works is likely to be delayed or has been delayed beyond the Date for Completion stated in Appendix 1 or beyond any extended Date for Completion previously fixed under this Clause due to any or more of the following events:
 - (a) force majeure as provided under clause 58;
 - (b) exceptionally inclement weather;
 - (c) suspension of Works under clause 50;
 - (d) directions given by the S.O., consequential upon disputes with neighboring owners
 provided the same is not due to any act, negligence or default of the Contractor or any
 sub-contractor, nominated or otherwise;
 - (e) S.O.'s instructions issued under clause 5 hereof, PROVIDED THAT such instructions are not issued due to any act, negligence, default or breach of this Contract by the Contractor or any sub-contractor, nominated or otherwise;
 - (f) the Contractor not having received in due time instructions in regard to the nomination of sub-contractors and/or suppliers provided in this Contract, necessary instructions, drawings or levels for the execution of the Works from the S.O. due to any negligence or default of the S.O. PROVIDED THAT the Contractor shall have specifically applied in writing on a date which having regard to the Date for Completion stated in Appendix or to any extension of time then fixed under this clause, was neither unreasonably distant from nor unreasonably close to the date on which it was necessary for him to receive the same;
 - (g) delay in giving possession of the Site as provided under clause 38.4 hereof other than claim in effecting insurance and Performance Bond;
 - (h) delay on the part of artists, tradesmen or others engaged by the SAMB in executing work not forming part of this Contract;
 - (i) the Contractor's inability for reason beyond his control and which he could not reasonably have foreseen at the date of closing of tender of this Contract to secure such goods, materials and/or services as are essential to the proper carrying out of the Works; or
 - (j) delay on the part of the Nominated Sub-contractors and/or Nominated Suppliers to perform their works, due to reasons as stated above in sub-clauses (a) to (i),

then the S.O. may if he is of the opinion that the extension of time should be granted, so soon as he is able to estimate the length of the delay beyond the date or time aforesaid issue a Certificate of Delay and Extension of Time giving a fair reasonable extension of time for completion of the Works.

PROVIDED THAT all such delays are not due to any act, negligence, default or breach of contract by the Nominated Sub-contractor and/or Nominated Supplier and/or the Contractor, or

any of the servants or agents of such Nominated Sub-contractor or Nominated Supplier or the Contractor.

PROVIDED ALWAYS that the Contractor has taken all reasonable steps to avoid or reduce such delay and shall do all that may reasonably b'! required to the satisfaction of the S.O. to proceed with the Works.

PROVIDED FURTHER that the Contractor shall not be entitled to any extension of time where the instructions or acts of the S.O. are necessitated by or intended to remedy any default of or breach of contract by the Contractor.

44.0 CLAIMS FOR LOSS AND EXPENSE

- 44.1 If at any time during the regular progress of the Works or any part thereof has been materially affected by reason of delays as stated under clause 43.1 (c), (d), (e), (f) and (h), and the Contractor has incurred direct loss and/or expense beyond that reasonably contemplated and for which the Contractor would not be reimbursed by a payment made under any other provision in this Contract, then the Contractor shall within thirty (30) days of the occurrence of such event or circumstances or instructions give notice in writing to the S.O. of his intention to claim for such direct loss or expense together with an estimate of the amount of such loss and/or expense, subject always to clause 44.2 hereof.
- As soon as is practicable but not later than ninety (90) days after practical completion of the Works, the Contractor shall submit full particulars of all claims for direct loss or expense under clause 44.1 together with all supporting documents, vouchers, explanations and calculations which may be necessary to enable the direct loss or expense to be ascertained by the S.O.. The amount of such direct loss or expense ascertained by the S.O. shall be added to the Contract Sum.
- 44.3 If the Contractor fails to comply with clauses 44.1 and 44.2, he shall not be entitled to such claim and the SAMB shall be discharged from all liability in connection with the claim.

45.0 INVESTIGATION BY THE SAMB AND OTHER PERSONS IN CASE OF ACCIDENT, FAILURE OR OTHER EVENT

Where the SAMB, its employee or any person or body appointed or authorised by it carries out any investigation in relation to any accident, failure or other event which has occurred to, in or in connection with the Works. or any part thereof for the purpose of determining the cause or reason for the said accident, failure or event, the Contractor shall render all such necessary assistance and facilities as may be required by the SAMB, its employee or such person or body, including the giving of access to all specifications, designs, records and other available information relating to the Works.

46.0 ACCESS FOR WORKS, ETC.

46.1 Access for S.O.

- (a) The S.O. and any person authorised by the S.O. shall at all times have access to the Works and to the factories, workshops or other places of the Contractor or of any subcontractor or supplier where any equipment, materials, goods or work are manufactured, fabricated, assembled, prepared or stored for the Contract.
- (b) Where any such equipment, materials, goods or work are being manufactured, fabricated, assembled, prepared or stored in the factories, workshops or other places of

a sub-contractor or supplier, the Contractor shall by a term in the sub-contract secure a similar right of access to those factories, workshops or other places for the S.O. and any person authorised by the S.O., and shall take reasonable steps required of him by the S.O. to enforce or assist in enforcing such right.

(c) Any person so removed from the Works shall be replaced without delay by a substitute approved by the S.O.; PROVIDED THAT the Contractor shall not be entitled to any claim for any expense whatsoever incurred by him in respect of any direction given by the S.O. under this Clause.

46.2 Access for Other Contractors and Workmen

The Contractor shall in accordance with the requirements of the S.O. afford all reasonable access and facilities to any other person engaged by the SAMB and their workmen and of any other constituted authorities for the purposes of executing any work on or near the Site.

47.0 SUB-CONTRACT OR ASSIGNMENT

- 47.1 The Contractor shall not without the prior written consent of the S.O. (which consent shall not be unreasonably delayed or withheld) sub- contract the design for any portion of the Works under clause 22 of this Contract. Where the S.O. consents to any sub-contract under this clause, such consent shall not in any way absolve the obligations of the Contractor under clause 10.
- 47.2 The Contractor shall not sub- contract the whole or any substantial part of the Works without the prior written consent of the S.O. (which consent shall not be unreasonably delayed or withheld). Any such consent, if given, shall not relieve the Contractor from any liability or obligation under this Contract and he shall be responsible for the due observance by such sub-contractors, of all the terms, stipulations and conditions under this Contract.
- 47.3 Notwithstanding any sub-contract made pursuant to clauses 47.1 and 47.2, the Contractor shall be fully responsible for the acts, defaults or neglects of any sub-contractor, including 'labour only' sub-contractors, his agents, servants or workmen as if they were the acts, defaults or neglects of the Contractor, his agents, servants or workmen; PROVIDED THAT the provision of labour on a piecework basis shall not be deemed to be a sub-contract under this clause.
- 47.4 It shall be a condition in any sub-contract which has been consented to by the SAMB that upon termination of the Contractor's employment under the Contract, the employment of the sub-contractor under the sub-contract shall terminate immediately. No claim whatsoever shall be made by the Contractor and/or sub-contractor against the SAMB for any work done or materials or goods supplied.
- 47.5 If the Contractor sub-contracts the Works, in whole or in part, to any person without getting prior written consent of the S.O. as provided under this clause, the S.O. shall have the right to instruct the Contractor to forthwith terminate such sub-contract and the Contractor shall be liable for all costs and expense relating to such termination.
- 47.6 The Contractor shall not assign the Contract or any part thereof, or any benefit or interest therein or thereunder otherwise than by way of assignment in favour of the Contractor's banker or any financial institution or Corporation of any monies due or to become due under this Contract without prior written consent of the S.O.

48.0 **DEFECTS AFTER COMPLETION**

48.1 Completion of Outstanding Work and Remedying Defects

- (a) At any time during the Defects Liability Period as stated in Appendix hereto (or if none stated the period is twelve (12) months from the date of practical completion of the Works), any defect, imperfection, shrinkage or any other fault whatsoever which may appear and which are due to materials or goods or workmanship not in accordance with this Contract, the S.O. shall issue written instruction to the Contractor to make good such defects, imperfections, shrinkages or any other fault whatsoever at the Contractor's own cost. The Contractor shall complete all such works with due expedition or within such time as may be specified by the S.O.
- (b) Without prejudice to sub-clause (a), any defect, imperfection, shrinkage or any other fault whatsoever which may appear during the Defects Liability Period to be made good by the Contractor, shall be specified by the S.O. in the Schedule of Defects which he shall deliver to the Contractor not later than fourteen (14) days after the expiration of the Defects Liability Period. The defects, imperfections, shrinkages or any other fault whatsoever specified in the Schedule of Defects shall be made good by the Contractor at his own costs and to be completed within a reasonable time but in any case not later than three (3) months after the receipt of the said Schedule. PROVIDED THAT the S.O. shall not be allowed to issue any further instruction requiring the Contractor to make good of any defect, imperfection, shrinkage or any other fault whatsoever after the issuance of the said Schedule of Defects or after fourteen (14) days from the expiration of the said Defects Liability Period, whichever is the later.

48.2 **Default in Remedying Defects**

If the Contractor shall fail to comply with either clause 48.1(a) and/or 48.1(b) within the time so specified, the materials or works so affected may be made good in such manner as the S.O. may think fit, in which case the costs incurred including On-Cost Charges (calculated by applying the Percentage of On-Cost Charges stated in Appendix to the costs incurred), shall be deducted from any money due or to become due, to the Contractor under this Contract and failing which such costs shall be recovered from the Performance Bond or as a debt due from the Contractor.

48.3 **Diminution in Value of Works**

If any defect, imperfection, shrinkage or any other fault whatsoever is such that, in the opinion of the S.O., It shall be impracticable or inconvenient to the SAMB to have the Contractor to remedy the same, the S.O. shall ascertain the diminution in the value of the Works due to the existence of such defects, imperfections, shrinkages or any other fault whatsoever. The amount of such diminution shall be recoverable by the SAMB from the Contractor as a debt due under the Contract and failing which such diminution shall be recovered from the Performance Bond.

48.4 Certificate of Completion of Making Good Defects

When in the opinion of the S.O. the Contractor has made good the defects, imperfections, shrinkages or any other fault whatsoever which he is required to make good under clauses 48.1(a) or (b), or both, the S.O. shall issue a certificate to that effect, and the date specified in such certificate shall be the date on which the Contractor has completed making good such defects, imperfections, shrinkages or any other fault whatsoever. The said Certificate shall be referred to as the "Certificate of Completion of Making Good Defects".

49.0 UNFULFILLED OBLIGATIONS

Notwithstanding the issue of the Certificate of Completion of Making Good Defects under clause 48.4 hereof the Contractor and the SAMB shall remain liable for the fulfilment of any obligation incurred under the provisions of the Contract, prior to the issue of the said certificate, which remains unfulfilled at the time such certificate is issued, and for the purpose of determining the nature and extent of any such obligation, the Contract shall be deemed to remain in force between the Parties hereto.

50.0 SUSPENSION OF WORKS

50.1 Suspension and Resumption of Works

- (a) The S.O. may at any time instruct the Contractor to suspend part or all of the Works.
- (b) Upon receipt of such written instruction, the Contractor shall suspend part or all of the Works for such time and in such manner as specified in the instruction and shall duly protect, store and secure the Works or such part of the Works against any deterioration, loss or damage.
- (c) During the suspension period, the Contractor shall continue to perform its obligations under this Contract, which are not affected by the instruction to suspend, including the obligation to effect and maintain insurances and Performance Bond.
- (d) The S.O. may instruct the Contractor to resume the Works at any time thereafter. Upon receipt of such instruction the Contractor shall resume the Works, and the Parties shall jointly examine the Works affected by the suspension. The Contractor shall make good any deterioration or defect in or loss of the Works which has occurred during the suspension. The Contractor shall also take all necessary actions to mitigate the expenses incurred

50.2 Extension of Time

If the Contractor suffers delay and/or incurs expenses in complying with the instruction under clause 50.1(a), and in resumption of the Works, and if such delay and/or expenses was not foreseeable by the Contractor, the Contractor shall give notice for extension of time under clause 43 and the provisions thereof shall apply accordingly. PROVIDED THAT the Contractor shall not be entitled to such extension if the suspension is due to a cause attributable to the Contractor and he shall not be entitled to payment of loss and expense if he —

- (a) fails to take measures specified in clause 50.1(b); and
- (b) fails to take all necessary action to mitigate the expenses incurred.

In the event such suspension shall continue for a period exceeding twelve (12) months, the Parties shall then discuss whether to mutually terminate the Contract or suspend the Works for a further period.

50.3 Consequences of Mutual Termination

- (a) If the Contract is mutually terminated under this clause-
 - (i) clause 51.1(c)(i) shall be applicable; and
 - (ii) payment obligations including all costs and expenditure incurred by the SAMB and the Contractor shall be ascertained in accordance with clause 54.

51.0 EVENTS AND CONSEQUENCES OF DEFAULT BY THE CONTRACTOR

51.1 **Default of Obligations**

(a) Events of Default

In the event the Contractor -

- faits to commence works at the Site within two (2) weeks after the Date for Possession;
- (ii) suspends or abandons the carrying out of the Works or any part thereof for a continuous period of () days;
- (iii) fails to proceed regularly and diligently with the performance of his obligations under the Contract;
- (iv) fails to execute the Works in accordance with the Contract;
- (v) persistently neglects to carry out his obligations under the Contract;
- refuses or persistently neglects to comply with a written notice from the S.O. in relation to any defective work or equipment, materials or goods which are defective or do not meet the requirements of the Contract;
- (vii) fails to comply with the provisions of clause 47; or
- (viii) fails to comply with any terms and conditions of this Contract,

then the SAMB shall give written notice to the Contractor specifying the default, and requiring the Contractor to remedy such default within fourteen (14) days of the receipt of the default notice or any period determined by the SAMB.

(b) Termination

If the Contractor fails to remedy the breach within such period, the SAMB shall have the right to forthwith terminate this Contract by giving a written notice to that effect

(c) Consequences of Termination

If this Agreement is terminated under clause 51.1(b) -

- (i) the Contractor shall -
 - (A) forthwith cease all operations of the Works;
 - (B) carry out any protection works so as to secure the Site, equipment, goods, materials therein against any deterioration, loss or damage and to do all necessary things so as to leave the Site in a clean and tidy condition;
 - (C) remove its personnel and workmen from the Site;
 - (D) vacate the Site within the time stipulated by the S.O., remove all temporary buildings, plant, tools, equipment, goods and unfixed materials which have not been paid by the SAMB, as specified by the S.O. Failing which, the SAMB may (but without being responsible for any

loss or damage) remove and sell any such property belonging to the Contractor, holding the proceeds, less all cost incurred, to the credit of the Contractor;

(E) either -

- (aa) terminate all third party contracts entered into by the Contractor for the purposes of this Contract;
- (bb) assign to the SAMB, if so required by the S.O., at no cost or expense to the SAMB, the benefit of any agreement for the supply of materials or goods and/or for the execution of any work or services for the purposes of this Contract; or
- (cc) allow such third party to enter into a contract with the SAMB or any person deemed necessary by the SAMB for the purpose of completing the Works;

PROVIDED THAT the SAMB shall not be obliged to pay any third party for any materials or goods delivered or any work executed or services for the purposes of this Contract (whether before or after the date of termination) for which the SAMB has paid but the Contractor has failed to make payment to the third party;

- (F) at no cost to the SAMB, hand over to the SAMB all plans, designs, specification and other relevant documents relating to the Works;
- (G) pay to the SAMB for any losses and damages as a result of termination of this Contract in the manner provided under clause 56; and
- (H) not be released from any of its obligations under the Contract.

(ii) the SAMB shall —

- (A) call upon the Performance Bond or forfeit the Performance Guarantee Sum:
- (B) enter and repossess the Site;
- (C) be entitled to carry out and complete the Works on its own or employ any other person to carry out and complete the Works; and
- (D) be entitled to claim against the Contractor for any losses, costs, expenses and damages suffered as a result of termination of this Contract in the manner provided under clause 56.
- (iii) for the avoidance of doubt, the Parties hereby agree that the Contractor shall not be entitled to any form of losses including loss of profit, damages, claims or whatsoever upon termination of this Contract under this clause.

51.2 General Default

(a) Events of Default

If at any time during the Contract Period-

- (i) the Contractor becomes bankrupt;
- (ii) the Contractor becomes insolvent or compounds with or enters into an arrangements or compositions with its creditors;
- (iii) an order is made or resolution ih effectively passed for the winding-up of the Contractor (except for the purpose of restructuring or amalgamation with the written consent of the SAMB, which consent shall not be unreasonably withheld);
- (iv) a provisional liquidator, receiver or manager of its business or undertaking duly appointed, or possession taken by or on behalf of creditors or debenture holders secured by a floating charge of any property comprised in or subject of the floating charge; or
- (v) execution is levied against a substantial portion of the Contractor's assets,

then the SAMB shall have the right to terminate this Contract forthwith by giving notice to that effect.

(b) Consequences of Termination

- (i) In the event the termination of this Contract under clause 51.2 takes place, clauses 51.1(c)(i) and 51.1(c)(ii) shall apply.
- (ii) For the avoidance of doubt, the Parties hereby agree that the Contractor shall not be entitled to any form of losses including loss of profit, damages, claims or whatsoever upon termination of this Contract under this clause.

52.0 TERMINATION ON NATIONAL INTEREST

52.1 Termination

- (a) Notwithstanding any provision of this Contract, the SAMB may terminate this Contract by giving not less than thirty (30) days written notice to that effect to the Contractor (without any obligation to give any reason thereof) if the SAMB considers that such termination is necessary for national interest, national policy or national security.
- (b) For the purpose of this clause, what constitutes "national interest", "national policy" and "national security", shall be solely made and determined by the SAMB and such determination shall for all intent and purposes be final and conclusive and shall not be open to any challenge whatsoever.

52.2 Consequences of Termination

Upon such termination of this Contract under clause 52.1-

- (a) payment obligations including all costs and expenditure incurred by the SAMB and the Contractor shall be ascertained in accordance with clause 54; and
- (b) clause 51.1(c)(i) and clause 51.1(c)(ii)(B) and (C) shall apply.

53.0 TERMINATION ON CORRUPTION, UNLAWFUL OR ILLEGAL ACTIVITIES

53.1 **Termination**

Without prejudice to any other rights of the SAMB, if the Company, its personnel, servants or employees is convicted by a court of law for corruption or unlawful or illegal activities in relation to this Contract or any other agreement that the Contractor may have with the SAMB, the SAMB shall be entitled to terminate this Contract at any time, by giving immediate written notice to that effect to the Contractor.

53.2 Consequences of Termination

Upon such termination under clause 53.1 —

- (a) the SAMB shall be entitled to all losses, costs, damages and expenses including any incidental costs and expenses incurred by the SAMB arising from such termination;
- (b) clause 51.1(c)(i) and (ii) shall apply; and
- (c) for the avoidance of doubt, the Parties hereby agree that the Contractor shall not be entitled to any other form of losses including loss of profit, damages, claims or whatsoever upon termination of this Contract.

54.0 PAYMENTS UPON SUSPENSION AND TERMINATION ON NATIONAL INTEREST

- 54.1 If this Contract is terminated under clause 50 or clause 52, the amount to be paid (in so far as such amounts or items have not already been covered by payments on account made to the Contractor) shall be the following:
 - (a) the value of all work carried out up to the date of termination;
 - (b) the amounts payable in respect of any preliminary items so far as the Work or service comprised therein has been carried out or performed and a proper proportion of any such items which have been partially carried out or performed;
 - (c) the cost of materials or goods reasonably ordered for the Works which have been delivered to the Contractor or of which the Contractor is legally liable to accept delivery (such materials or goods becoming the property of the SAMB upon such payment being made to the Contractor);
 - (d) a sum being the amount of any expenditure reasonably incurred by the Contractor in so far as such expenditure has not been recovered by any other payments referred to in this sub-clause; and
 - (e) the reasonable cost of any protection works and removal of equipment and site facilities pursuant to termination as provided under this Contract,

PROVIDED THAT such amount to be paid by the SAMB shall be confined only to those items as are clearly and expressly stated in sub-clauses (a)-(e) above.

For the avoidance of doubt, the Parties hereby agree that the Contractor shall not be entitled to any other form of losses including loss of profit, damages, claims or whatsoever other than stipulated under clause 54.1(a)-(e). The Parties further agree that the amount agreed above by the SAMB shall constitute as a full and final settlement between the Parties.

54.3 Upon termination of this Contract under clause 50 and clause 52, a final account of this Contract shall be prepared and issued by the S.O.

55.0 EVENTS AND CONSEQUENCES OF DEFAULT BY THE SAMB

Default of Obligations

(a) Events of Default

If the SAMB without any reasonable cause fails to perform of fulfil any of its obligations which adversely affects the Works,

then the Contractor may issue a notice specifying the default by the SAMB and requiring the SAMB to remedy the same within the period specified therein taking into account the nature of the remedy to be carried out by the SAMB or such other period as may be agreed by both Parties from the date of receipt of such notice.

(b) Termination

If the SAMB fails to remedy the default period specified in such notice issued under Clause 55 (a) within the stipulated period time therein, the Contractor shall have the right to forthwith terminate this Contract by giving a written notice to that effect.

(c) Consequences of Termination

If this Contract is terminated under Clause 55 (b)

- i. the SAMB shall pay to the Contractor
 - (a) the value of the Works carried out up to the date of termination;
 - (b) the amounts payable in respect of any preliminary items so far as the Work or service comprised therein has been carried out or performed and a proper proportion of any such items which have been partially carried out or performed;
 - (c) the cost of materials or goods reasonably ordered for the Works which have been delivered to the Contractor or of which the Contractor is legally liable to accept delivery (such materials or goods becoming the property of the SAMB upon such payment being made to the Contractor); and
 - (d) a sum being the amount of any expenditure reasonably incurred by the Contractor in so far as such expenditure has not been recovered by any other payments referred to in this sub-clause.
- ii. For the avoidance of doubt, the Parties hereby agree that the Contractor shall not be entitled to any other form of losses including loss of profit, damages, claims or whatsoever upon termination of this Contract.

56.0 CERTIFICATE OF TERMINATION COSTS

As soon as the arrangements for the completion of the Works made by the SAMB enable the S.O. to make a reasonably accurate assessment of the ultimate cost to the SAMB of completing the Works following the termination of the Contractor's employment and the engagement of other contractors or persons, and the amount of direct loss and/or damage caused to the SAMB due to the termination has been ascertained by the S.O., then the

S.O. may issue a certificate (hereinafter referred to as the "Certificate of Termination Costs")

stating the Completion Cost (hereinafter defined) and the Final Contract Sum (hereinafter defined).

- 56.2 The Completion Cost comprises the following sums, costs or expenditure:
 - (a) the sums previously paid to the Contractor by the SAMB;
 - (b) the sums paid or payable to other contractors or persons engaged by the SAMB to complete the Works;
 - (c) any sums paid to sub-contractors or suppliers under clause 61;
 - (d) any costs or expenditure incurred or to be incurred including On-Cost Charges incurred by the SAMB in completing the Works; and
 - (e) the amount of direct loss and/or damage caused to the SAMB due to the termination.
- 56.3 The Final Contract Sum comprises of the following amounts or sums:
 - (a) the amount which would have been payable under the Contract on completion in accordance with the Contract, allowing any variations or other matters which would have resulted in an adjustment of the original Contract Sum; and
 - (b) any other sums which the SAMB might be entitled under the terms of the Contract to deduct from the original Contract Sum,

had the Contractor's employment not been terminated.

- The Certificate of Termination Costs shall state the difference between the Final Contract Sum and the Completion Cost. If the Final Contract Sum is less than the Completion Cost, the difference shall be a debt payable by the Contractor to the SAMB and if greater the difference shall be a debt payable by the SAMB to the Contractor.
- The Certificate of Termination Costs shall be binding and conclusive on the Contractor as to the amount of such loss or damage specified therein.
- In the event the completion of the Works being undertaken departmentally, allowance shall be made, when ascertaining the amount to be certified as costs and expense incurred by the SAMB, for cost of supervision, interest and depreciation on plant and all other usual overhead charges and profit as would be incurred if the Works were completed by other contractors or persons.

57.0 SURVIVING RIGHTS

Any termination under this Contract shall not affect the liability of either Party hereto for any of its acts or omissions during the period of the Contract and both Parties shall thereafter continue to be so liable and shall keep the other Party hereto indemnified and hold harmless in respect of any claims arising therefrom.

58.0 EFFECT OF FORCE MAJEURE

Neither the SAMB nor the Contractor shall be in breach of its obligations under this Contract if it is unable to perform its obligation under this Contract (or any part of thereof), other than the payment obligations as a result of the occurrence of an Event of Force Majeure.

- 58.2 An "Event of Force Majeure" is an event beyond the control of both Parties which are:
 - (a) war (whether declared or not), hostilities, invasion, act of foreign enemies;
 - (b) insurrection, revolution, rebellion, military or usurped power, civil war, terrorism;
 - (c) natural catastrophe including but not limited to earthquakes, floods, subterranean spontaneous combustion or any operation of the forces of nature against which an experienced contractor could not reasonably have been expected to take precautions;
 - (d) nuclear explosion, radioactive or chemical contamination or radiation (unless caused by the negligence act, omission or default of the Contractor, its agents or personnel);
 - (e) pressure waves caused by aircraft or other aerial devices traveling at sonic or supersonic speeds; and
 - (f) riot, commotion or disorder, unless solely restricted to employees of the Contractor or its personnel, servants or agents.
- 58.3 If an Event of Force Majeure occurs by reason of which either Party is unable to perform any of its obligation under this Contract (or any part thereof), the Party shall inform the other Party immediately of the occurrence of that Event of Force Majeure with full particulars thereof and the consequences thereof.
- 58.4 If either Party considers the Event of Force Majeure to be of such severity or to be continuing for such period of time that it effectively frustrates the original intention of this Contract, then the Parties may agree that this Contract may be terminated upon mutual agreement of the Parties.
- If this Contract is terminated by an Event of Force Majeure pursuant to the above clause, all rights and obligations of the Parties under this Contract shall forthwith terminate and neither Party shall have any claim against the other Party and neither Party shall be liable to each other save for any rights and liabilities accruing prior to the occurrence of the Event of Force Majeure.
- Neither Party shall be entitled to rely upon the provisions above if both Parties reasonably determine that an Event of Force Majeure has not occurred.
- For avoidance of doubt, the Parties shall continue to perform those parts of those obligations not affected, delayed or interrupted by an Event of Force Majeure and such obligations shall, pending the outcome of this clause continue in full force and effect.

59.0 SITE AGENT AND ASSISTANTS

Unless otherwise provided elsewhere in this Contract, the Contractor shall keep constantly on the Site a competent, efficient, suitability qualified, experienced and good character site agent and his assistants in each trade as may be necessary who must be capable of receiving instructions in Bahasa Malaysia, and in default it shall be the responsibility of the Contractor to provide replacement for them and all wages and other expenses in connection with the employment of such replacement site agent and assistants. Any directions, explanations or instructions given to such site agent by the S.O. shall be deemed to have been given to the Contractor under this Contract.

60.0 NOMINATED SUB-CONTRACTORS AND/OR NOMINATED SUPPLIERS

The S.O. shall obtain tenders for Nominated Sub-Contractor's or Nominated Supplier's work or services, or for the supply of materials or goods in respect of which Prime Cost Sums or

Provisional Sums are included in the Bills of Quantities, and the Contractor shall, on the written instruction of the S.O., enter into such sub-contracts with the Nominated Sub-Contractor or Nominated Supplier as the case may be and such sub-contracts shall be in the form as referred to in clause 60.2(b).

- 60.2 The S.O. shall not nominate as a sub-contractor or a supplier in connection with the Works:
 - (a) a person against whom the Contractor shall make in writing within twenty one (21) days from the date of the S.O.'s instruction under clause 60.1 hereof what the S.O. considers to be reasonable objection;
 - (b) a person who will not enter into a sub-contract with terms and conditions as provided in the SAMB standard form of sub-contract for Nominated Sub-contractor (Form PWD 203N) or for Nominated Supplier (Form PWD 203P), as the case may be; or
 - (c) a person who will not give to the SAMB such indemnity with terms and conditions as provided in the SAMB standard form of Letter of Indemnity for Nominated Subcontractors (Form PWD 203N7) or for Nominated Suppliers (Form PWD 203P7), as the case may be.
- 60.3 If pursuant to clause 60.2, the Contractor is not required to enter into a sub-contract with a Nominated Sub-contractor or Nominated Supplier, as the case may be, the S.O. shall do one or more of the following:
 - (a) nominate an alternative sub-contractor or supplier, as the case may be, in which case clause 60.2 hereof shall apply;
 - (b) by order under clause 24 vary the Works or the work or services, materials or goods, the subject of the Prime Cost Sums or Provisional Sum as aforesaid, including if necessary the omission of any such work or services, materials or goods so that they may be provided by workmen, contractors or suppliers, as the case may be, employed by the SAMB either concurrently with the Works or at some other date in which case the Contractor shall not be entitled to claim for any losses therefrom; or
 - (c) in accordance with clause 34.4 arrange for the Contractor to execute such work or services, or to supply such materials or goods.

61.0 PAYMENT TO NOMINATED SUB-CONTRACTOR OR SUPPLIER

- 61.1 The S.O. in issuing Interim Certificates under clause 28 or the Final Certificate under clause 31 hereof shall state separately the amount of interim or final payment due to each Nominated Sub-Contractors or Suppliers which amount subject to clause 61.2 hereof, shall be paid by the SAMB direct to the Nominated Sub-contractors or Suppliers. The amount paid by the SAMB direct to the Nominated Sub-contractors or Suppliers shall be deemed to be a payment to the Contractor by the SAMB under and by virtue of this Contract.
- Subject to the relevant provisions in the sub-contract (Form PWD 203N or Form PWD 203P as the case may be), the Contractor shall be entitled to be paid and the SAMB may pay to the Contractor out of any money otherwise due to a Nominated Sub-contractors or Suppliers:
 - (a) any amount which the SAMB or the S.O. on its behalf in exercise of any rights under this Contract has deducted from any money due to the Contractor and such deduction is in respect of some act or default solely of the Nominated Sub-contractors or Suppliers, his servants or agents;
 - (b) any amount agreed by the Nominated Sub-Contractor or Suppliers as due to the Contractor, or any amount awarded in arbitration or litigation in favour of the Contractor which arises out of or under the sub-contract; and

- (c) the amount of any claim for loss and/or expense actually incurred by the Contractor by reason of any breach or failure to observe the provisions of the sub-contract by the Nominated Sub-contractors or Suppliers under the sub-contract.
- Any amount paid to the Contractor in accordance with this clause shall be deemed to be a payment to the Nominated and/or Sub-Contractors or Suppliers under the sub-contract.

62.0 NO LIABILITY OF SAMB TO NOMINATED AND/OR SUB-CONTRACTOR OR SUPPLIER

Nothing in clauses 60 or 61 or anything else contained in this Contract shall render the SAMB in any way liable to any Nominated and/or Sub-Contractor or Supplier.

63.0 RESPONSIBILITIES OF CONTRACTOR TO NOMINATED AND/OR SUB-CONTRACTORS OR SUPPLIERS

- 63.1 The Contractor shall be fully responsible to ensure that the Nominated Sub-Contractor or Suppliers shall conform with the terms and conditions of this Contract and shall be fully responsible for the acts, defaults or breach of any terms and/or conditions of this Contract by the Nominated Sub-Contractors or Suppliers on their part in the same way as for his own or those of other sub-contractors or suppliers engaged by himself. The SAMB shall in no circumstances be liable to the Contractor for the default of any Nominated Sub-Contractors or Suppliers.
- 63.2 In the event of repudiation or abandonment of his sub-contract by any Nominated Sub-contractor or Supplier, or the determination by the Contractor of the employment of the Nominated Sub-contractor or Supplier for any reason whatsoever under the sub-contract, the Contractor shall do one of the following:
 - (a) with the consent of the S.O. (such consent not to be unreasonably withheld) employ another competent sub-contractor or supplier to complete the sub-contract; or
 - (b) undertake to complete the sub-contract himself.

PROVIDED THAT in any of such events the Contractor is entitled to be paid the same sum for the work or services to be executed, or materials or goods to be supplied, as would have been payable had the original Nominated Sub-contractor or Supplier completed the sub-contract without any default on its part.

64.0 INTELLECTUAL PROPERTY RIGHTS

- 64.1 The Copyright and all other proprietary rights whatsoever in the Works and other material developed and supplied by the Contractor pursuant to or under this Contract shall vest in and shall be the sole property of the SAMB and the Contractor shall not during or at any time after completion of the Works or after the expiry or termination of this Contract, in any way, question or dispute the ownership of the SAMB. The proprietary rights in the Works shall vest in the SAMB free and clear of all liens, claims and encumbrances on the Works.
- The Contractor shall be responsible for any claim that the equipment supplied infringes a patent, copyright or registered design.
- 64.3 If the SAMB's use or possession of the equipment is likely to constitute an infringement, then the Contractor shall promptly and at its own expenses procure for the SAMB the right to continue using and possessing the equipment; or modify or replace the equipment so as to

avoid the infringement (in which event the Contractor shall compensate the SAMB for the amount of any direct loss or damage sustained or incurred by the SAMB during such modification or replacement).

The Contractor shall indemnify the SAMB against any claim for the infringement of any letters patent, copyright or registered designs by the use of any equipment or of information supplied under this Contract and against all costs and damages which the SAMB may incur in any action for which such infringements or for which the SAMB may become liable in any such action.

65.0 ANTIQUITIES

- 65.1 All fossils, coins, antiquities and other objects of interest or value which may be found on the Site or in excavating the same during the progress of the Works shall become absolute property of the SAMB and upon discovery of such an object the Contractor shall forthwith-
 - (a) not to disturb the object and shall cease work if and in so far as the continuance of the work would endanger the object or prevent or impede its excavation or its removal;
 - (b) take all steps which may be necessary to preserve the object in the exact position and condition in which it was found; and
 - (c) inform the S.O. of the discovery and precise location of the object.
- 65.2 The S.O. shall issue instructions in regard to what is to be done concerning the object reported by the Contractor under clause 65.1 and (without prejudice to the generality of his power) such instructions may require the Contractor to permit the examination, excavation or removal of the object by a third party. Any such third party shall for the purpose of clause 15 be deemed to be a person for whom the SAMB is responsible and not to be a sub-contractor.
- 65.3 If compliance with the provisions of clause 65.1 or with an instruction issued under clause 65.2 has involved the Contractor in direct loss and/or expense for which he would not be reimbursed by a payment made under any other provisions of this Contract then the amount of such loss and/or expense shall be added to the Contract Sum.

66.0 ARBITRATION

- 66.1 If any dispute or difference shall arise between the SAMB and the Contractor out of or in connection with the contract, then parties shall refer such matter, dispute or difference to the officer named in Appendix for a decision.
- 66.2 The officer named in Appendix's decision shall be in writing and shall subject to clause 66.4 hereof, be binding on the Parties until the completion of the Works and shall forthwith be given effect to by the Contractor who shall proceed with the Works with all due diligence whether or not notice of dissatisfaction is given by him.

66.3 If the Parties —

- (a) fails to receive a decision from the officer named in the Appendix within forty-five (45) days after being requested to do so; or
- (b) is dissatisfied with any decision of the officer named in the Appendix,

then such dispute or difference shall be referred to arbitration within forty-five (45) days to an arbitrator to be agreed between the Parties and failing such agreement, to be appointed by the Director of the Regional Centre for arbitration in Kuala Lumpur on the application of either Party hereto. Such arbitration shall be heard at the Kuala Lumpur Regional Centre for Arbitration and shall be conducted in accordance with the rules for arbitration of the Kuala Lumpur Regional Centre for Arbitration using the facilities and the system available at the Centre.

- 66.4 Such reference, except on any difference or dispute under clause 51 hereof shall not be commenced until after the completion or alleged completion of the Works or determination or alleged determination of the Contractor's employment under this Contract, or abandonment of the Works, unless with the written consent of the SAMB and the Contractor.
- In the event that such consent has been obtained in accordance with clause 66.4, the reference of any matter, dispute or difference to arbitration pursuant to this clause and/or the continuance of any arbitration proceedings consequent thereto shall in no way operate as a waiver of the obligations of the parties to perform their respective obligations under this Contract.
- In any arbitration proceedings conducted pursuant to clause 66.3, the Parties may make any counter claim in relation to any dispute or difference arising from the Contract.
- 66.7 Upon every or any such reference the costs of such incidental to the reference and award shall be in the discretion of the Arbitrator who may determine the amount thereof, or direct the amount to be taxed as between solicitor and client or as between party and party, and shall direct by whom and to whom and in what manner the same be borne, award and paid.
- 66.8 The award of the Arbitrator shall be final and binding on the Parties.
- In the event of the death of the arbitrator or his unwillingness or inability to act, then the SAMB and the Contractor upon agreement shall appoint another person to act as the arbitrator, and in the event the SAMB and the Contractor fail to agree on the appointment of an arbitrator, an arbitrator shall be appointed by the Director of the Regional Centre for Arbitration in Kuala Lumpur.
- 66.10 In this clause, "reference" shall be deemed to be reference to arbitration within the meaning of the Arbitration Act 2005.
- 66.11 The arbitration shall be nment by the Arbitration Act 2005 and the laws of Malaysia.

67.0 NOTICE, ETC.

- Any notice, approval, consent, request or other communication required or permitted to be given or made under this Contract shall be in writing in Bahasa Malaysia or English language.
- 67.2 Such notice shall be effected by:
 - (i) hand delivery or courier and an acknowledgement of receipt obtained;
 - (ii) leaving the notice at the registered office or site office of the Contractor in which case it shall be deemed to have been duly delivered; or
 - (iii) registered post in which case it shall be deemed to have been received seven (7) days after the date of posti

67.3 The address of the SAMB and the Contractor is as shown below or such other address as either party may have notified the sender:

to the SAMB:

Address:

to the Contractor:

Address:

67.4 It shall be the duty of the parties to notify the other if there is a change of address or entity by giving a written notice within fourteen (14) days. In the event of the Contractor failing to notify the S.O. of such an address or any change in his address, such written notices and instructions shall be deemed to have been served upon the Contractor if they are sent in the manner stated above to the address stated in this Contract or to the Contractor's site office.

68.0 **SAFETY AT THE SITE**

68.1 Compliance with Safety Requirements

The Contractor shall comply with all relevant laws, regulations, rules, by-laws, directive or order by the relevant authorities on the requirements of safety-at-work ("Safety Requirements") and shall ensure his personnel, workmen and sub-contractors at all times during the execution of Works comply with such Safety Requirements.

68.2 Submission of Safety Programme

- (a) Within 14 days from the receipt of the Letter of Acceptance by the SAMB, the Contractor shall submit to the S.O a safety programme to ensure that all construction activities required for the execution of the Works are carried out in a safe manner and in compliance with Safety Requirements.
- (b) The safety programme shall be subject to the approval of the S.O. The submission to and approval by the S.O of the safety programme shall not relieve the Contractor of any of his obligations and liabilities pertaining to the safety requirement under the Contract.

68.3 Safety Officer and Personnel

- a) The Contractor shall appoint a suitably qualified and experienced person as safety officer who shall be responsible for compliance with Safety Requirements and all safety matters relating to the Works. The Contractor shall, from time to time, provide such other personnel and resources as may be required to ensure the effective implementation of the safety programme on Site.
- b) The Contractor shall conduct training programmes for all workmen including workmen of his sub-contractors for compliance with the Safety Requirements.

68.4 Safety Measures

(a) The Contractor shall ensure that the constructional plant together with all other tools and equipment and other items used in the execution of the Works are in a safe, sound and good condition and capable of performing the functions for which they are intended.

- (b) The Contractor is responsible for instituting a safe method of construction on Site for all the workers and shall ensure that his sub-contractors whether nominated or otherwise institute the same method of construction for their workers.
- (c) Without limiting his liability under the Contract, the Contractor shall provide all workmen on Site with the necessary safety equipment including but not limited to safety boots, safety helmets and protective clothing.

69.0 ADVANCE PAYMENT

- 69.1 The Contractor shall be entitled to an advance payment on the Contract amounting to 25% of the value of the Contract Sum less Provisional Sums (hereinafter referred to as the "Builder's Work") but subject to a maximum of RM10 million on compliance with the following conditions:
 - (a) on return of the Letter of Acceptance duly signed by the Contractor together with the Performance Bond (if any), insurance policies, confirmation from SOCSO Authorities and the receipts for all premium paid;
 - (b) production of a Banker's/Insurance/Finance Company Guarantee in the approved format equal in value to the advance proposed to be paid;
 - (c) Submission of the Banker's Guarantee / Insurance Guarantee / Financial Company Guarantee not later than 3 months from the date of possession of Site.
- The advance payment shall be recouped when the cumulative total value of the Builder's Work executed and certified (including the amount certified for materials on site) reaches (25%) twenty five percent of the total contract value of Builder's Work, by way of a fixed percentage deduction from the total certified value of the Builder's Work executed (including the amount certified for materials on site) during the period covered by an Interim Payment Certificate, in all the subsequent Interim Payment Certificates on the basis that the advance payment made shall be fully recovered in the Interim Payment Certificate in which the cumulative total certified value of the Builder's Work executed (including the amount certified for materials on site) reaches seventy-five (75) percent of the total contract value of the Builder's work*. The deduction shall be calculated as follows:

\$ D	= 200 A percent or \$P
	В
Where \$ D	 cumulative deduction to be made in Interim Payment Certificate,
\$ A	 total amount of advance paid,
\$ B	total contract value of Builder's Work
\$ P	= gross certified value of Builder's Work executed (including the amount certified for materials on site) or agreed cumulative scheduled payments in excess of 25% of \$ B

200 A paraget of CB

69.3 The liability under the advance guarantee shall be terminated upon realization by the SAMB of the full sum of advance paid. However, if the full sum of the advance paid cannot be realized before the completion date of the contract or. any authorised extension thereof or the case of the contract been determined before the date of the determination, then the balance of the advance repayable to the SAMB shall be recovered from the advance guarantee

70.0 **AMENDMENT**

No modification, amendment or waiver of any of the provisions of this Contract shall be effective unless made by mutual consent and made in writing by way of supplementary agreement specifically referring to this Contract and duly signed by the Parties. The provisions in respect of such amendment, variation or modification thereof shall be supplemental to and be read as integral part of this Contract which shall remain in full force and effect as between both Parties.

71.0 CONFIDENTIALITY

- 71.1 This Contract and all such drawings, records, data, books, reports and all matters pertaining hereto shall be considered as confidential matter and shall not be disclosed to any third party without prior written mutual agreement, save and except where-
 - (a) disclosure of such information is necessary for the purposes of raising finance to undertake the obligations of the Contractor under this Contract;
 - (b) disclosure of such information is made to the Contractor's consultants, auditors or advisers;
 - (c) disclosure of such information is required by law or by any SAMB agency or for the performance of any obligations under this Contract; or
 - (d) the information has entered public domain.
- 71.2 Where information has been disclosed to third parties pursuant to clause 69.1, the Contractor undertakes to ensure that such third parties shall not disclose the information to any other third party.
- 71.3 The restrictions contained in this clause shall survive the termination of this Contract and shall continue to bind both Parties without limit in point of time.

72.0 STAMP DUTY

The Contractor shall solely bear the stamp duties, legal costs and fees in the preparation and execution of this Contract and anything incidental thereto.

73.0 SEVERABILITY

If any provision of this Contract is held to be illegal or is invalid under any laws or regulations effective and applicable during the term of this Contract such provision shall be fully severable and this Contract shall be construed as if such illegal or invalid provision had never comprised as part of this Contract and the remaining provisions of this Contract shall remain in full force and effect and shall not be affected by the illegal or invalid provision or by its severance from this Contract.

74.0 WAIVER

Failure by any Party to enforce at any time, any provision of this Contract shall not be construed as a waiver of its right to enforce the breach of such provision or any other provision in this Contract or as a waiver of any continuing, succeeding or subsequent breach of any provision or other provision of this Contract.

75.0 LAWS APPLICABLE

This Contract shall be governed by and construed in accordance with the laws of Malaysia and the Parties irrevocably submit to the exclusive jurisdiction of the courts of Malaysia.

76.0 SUCCESSORS BOUND

This Contract shall be binding upon the respective successors-in-title of the Parties.

77.0 EPIDEMICS AND MEDICAL ATTENDANCE

- 77.1 The Contractor shall maintain the Site in clean and sanitary condition and shall comply with all requirements of the SAMB Health and Sanitary Authorities. In the event of any outbreak of illness of an epidemic nature, the Contractor shall comply with and carry out such regulations, orders and requirements as may be made by the SAMB or the local medical or health authorities for the purpose of dealing with and overcoming the same.
- 77.2 The Contractor shall ensure that sufficient first aid kits are made available at suitable locations on the Site.

78.0 TECHNOLOGY TRANSFER

If the Contractor appoints foreign professionals, the Contractor shall endeavour to ensure that the employees of the SAMB are trained or exposed to the expertise of such foreign professionals pursuant to a programme for technology transfer.

79.0 GENERAL DUTIES AND PERFORMANCE STANDARD

78.1 Industry Practice

The Contractor shall provide and perform the Works in a proper manner in accordance with good management and best industry practice and to the best advantage of the SAMB and shall comply with all law, statutes and any guidelines or direction issued by the SAMB to the contractor from time to time.

79.2 Competency

The Contractor shall provide and perform its obligations under this Contract and take all appropriate measures expected of a competent company using due care and skills of a professional person providing similar service or works to ensure that the Works comply with the terrns and conditions of this Contract.

79.3 SAMB's Interest

The Contractor shall at all times perform the Works in such manner as will always safeguard and protect the SAMB's interest and take all necessary and protect the SAMB' interest take all necessary and proper steps to prevent abuse and in accordance with the provisions of this Contract.

80.0 RESTRICTION AND PROCEDURE ON USE OF IMPORTED MATERIALS AND GOODS

- 80.1 The Contractor shall use local goods/materials as listed in the 'Senarai Bahan/Barangan Buatan Tempatan' issued by IKRAM QA Services Sdn. Bhd. and/or issued by SIRIM QA Services Sdn. Bhd., whichever is relevant. If the Contractor fails to comply with this requirement, the SAMB may reject the goods/materials which are found to be not in compliance with this requirement.
- 80.2 For local goods/materials not listed as aforesaid, such goods/materials may be allowed if prior testing and certification from IKRAM QA Services Sdn. Bhd. or SIRIM QA Services Sdn. Bhd., whichever is relevant, has been obtained. Where such testing cannot be carried out by IKRAM QA Services Sdn. Bhd. or SIRIM QA Services Sdn. Bhd. the Contractor may, with the S.O.'s prior approval, have the testing to be done by another agency.
- 80.3 Under no circumstances shall the Contractor be permitted to incorporate or supply imported materials, plant, equipment, vehicles or other goods into the Works or forming part of the scope of the Works except those approved by the SAMB, prior to the execution of the Contract. The Contractor shall at his own cost entirely substitute any materials, plant, equipment, vehicles or other goods proposed to be imported but not approved by the SAMB, with suitable local materials, plant, equipment, vehicles or other goods, including making any necessary subsequential changes or adjustment to the design of the Works to accommodate such substitution, all to the concurrence of the S.O..
- 80.4 The Contractor shall ensure that the procurement of approved imported materials, plant, equipment, vehicles or other goods are obtained directly from the country of origin based on F.O.B. or other similar basis. The transportation and insurance of such imported materials, plant, equipment, vehicles or other goods from the country of origin to the Site shall be arranged by the Contractor through the SAMB's Multi Modal Transport Operators (hereinafter referred to as MTO) as listed in Appendix. The Contractor shall allow in his tender all costs and time required in complying with the requirements of this Clause including the cost required for the services provided by the MTO.
- 80.5 The Contractor shall submit documentary evidence of compliance with this clause to the S.O. within one (1) month from the date of each delivery to the Site of such materials, plant, equipment, vehicles or other goods.

81.0 **TIME**

Time whenever mentioned shall be of the essence of this Agreement.

IN WITNESS WHEREOF the Parties hereto have executed this Agreement on the day and year first above written.

SIGNED for and on behalf of THE SAMB OF MALAYSIA))))
in the presence of:) · · · · · · · · · · · · · · · · · · ·
*1 The Common Seal of))
(Co. No. :))
was hereunto affixed)
in the presence of:)
Director Name : NRIC No.:		Director/Secretary Name: NRIC No.:

¹ applicable only if the Contractor is a company registered under the Companies Act 1965

APPENDIX TO THE CONDITIONS OF CONTRACT

Cla: 4.1(Officer(s) empowered to approve variations according to the limits as set out in Treasury's Instructions No. 202 as amended.		
	Financial Limits	Officer		
4.1(1	(b) Officer(s) empowered to take action on behalf of the SAMB in respect of:			
	Clauses 51, 52, 53, 58 and 66			
13	Performance Bond			
	Amount of Guarantee	RM		
	Guarantor Bank/Insurance Compa Finance Company	nny/ 		
	Guarantee No			
15	Minimum insurance cover for any one series of accidents arising out of one	e accident or e event RM		
		Policy No		
		Period of insurance		

15.1 (b) Amount of excess RM.....

APPENDIX TO THE CONDITIONS OF CONTRACT - (Cont'd)

Clause		,
17.	SOCSO Scheme registration number	
18.	Amount to be added to full value of Contract Sum as the insured sum	RM
	Total Amount Insured	RM
	Policy of insurar	ce
18 (b)	Amount of excess	RM
21.2	Date of Tender	
28.1	Value of work to be executed including materials and goods to be delivered before First Interim Certificate will be issued	RM
28.2	Value of work to be executed including Materials and goods to be delivered before each Subsequent Interim Certificate will be issued	RM
28.6	Period for honouring payment certificate (if none stated, then within thirty (30) days of the issue of the Certificate	RM
34.4	Work covered by P.C. Sums for which the Contractor Will be permitted to tender	RM
38.2	'Date for Possession' of the Site	RM
39.1	'Date for Completion' for whole of the Works	
40.2	Liquidated and Ascertained Damages at the rate of	RM

APPENDIX TO THE CONDITIONS OF CONTRACT - (Cont'd)

Clause

41.1 Sectional Completion:

Identification of Sections or parts	Date for Possession [Clause 38.3]	Date for Completion	Liquidated & Ascertained Damages

48.1 (a)	Defects Liability Period (if none stated, Then the period is twelve (12) months	
5.3,5.4,15.3, 17.3(b), 18.2	Percentage of on-cost charges	5%
48.2, 56.2(d)	Percentage of on-cost charges	10%

BAHAGIAN B1 ADDENDA NO.1 KEPADA SYARAT-SYARAT

KONTRAK

Addenda No. 1 – kepada Syarat-syarat Kontrak SAMB 100 (Rev. 1/2010) mengandungi 1 helai muka yang menjadi sebahagian daripada kontrak tersebut dan hendaklah dibaca dan diertikan sedemikian (termasuk muka surat ini)

Nama Penuh:(Huruf Besar)
(Huruf Besar)
Atas Sifat :
No My Kad :
Untuk dan bagi pihak Syarikat Air Melaka Berhad
Cop Rasmi Syarikat
Saksi:
Nama Penuh :
Jawatan:

KLAUSA PENCEGAHAN RASUAH DALAM DOKUMEN PEROLEHAN SAMB

"Penamatan mengenai rasuah, aktiviti menyalahi undang-undang atau tidak sah"

- (a) Tanpa menjejaskan apa-apa hak lain Lembaga SAMB, jika [syarikat/firma], kakitangan, pengkhidmat atau pekerjanya disabitkan oleh mahkamah undang-undang bagi rasuah atau aktiviti menyalahi undang-undang atau menyalahi undang-undang berhubung dengan [perjanjian/kontrak] ini atau mana-mana perjanjian yang [syarikat/firma] itu mungkin ada dengan SAMB, yang SAMB berhak untuk menamatkan [perjanjian/kontrak] ini pada bila-bila, dengan memberi notis bertulis serta merta bagi maksud itu kepada [syarikat/firma].
- (b) Jika penamatan berlaku, SAMB berhak untuk mendapat balik semua kerugian, kos, kerosakan dan perbelanjaan (termasuk apa-apa kos dan perbelanjaan sampingan) yang dilakukan oleh SAMB yang timbul daripada penamatan tersebut.
- (c) Bagi mengelakkan sebarang keraguan, pihak-pihak dengan ini bersetuju bahawa [syarikat/firma] tidak layak menuntut apa-apa bentuk kerugian termasuk kehilangan keuntungan, kerosakan, tuntutan atau apa jua selepas penamatan [perjanjian/kontrak] ini.

BAHAGIAN C BORANG TENDER

BORANG INI HENDAKLAH DIGUNAKAN JIKA KUANTITI MENJADI SEBAHAGIAN DARIPADA KONTRAK (THIS FORM IS TO BE USED WHERE QUANTITIES FORM PART OF THE CONTRACT)

Kontrak No:	tahun 20bagi of for
Kerja–Kerja tersebut dibawah ini yang dibuat pada . The under – mentioned Work entered into on the	haribulan day of
20	oleh pihak - pihak yang bertandatangan di by the undersigned parties,
bawah ini, adalah berhubung dengan Bora refers to this Form of Tender	ang Tender ini yang menjadi sebahagian which is and shall be read
daripada Kontrak tersebut dan yang hend And construed as part	daklah dibaca dan diertikan sedemikian. of the said Contract.
Tandatangan Kontraktor Singnature of Contractor	Tandatangan Pegawai Singnature of Officer
(Nama Penuh) Name in Full	(Nama Penuh) Name in Full
Atas Sifat In the capacity of	Jawatan Designation
yang diberi kuasa dengan sempurnanya untuk menandatangani untuk dan bagi pihak duly authorized to sign for and on behalf of	Untuk dan bagi pihak Syarikat Air Melaka Berhad For and on behalf of Syarikat Air Melaka Berhad
Meteri atau cap Kontraktor Contractor's seal or chop	
SaksiWithness	SaksiWithness
(Nama Penuh	(Nama Penuh
Pekerjaan Occupation	Jawatan Designation
Alamat	

SYARIKAT AIR MELAKA AIR BERHAD

BORANG TENDER (FORM OF TENDER)

TENDER BAGI TENDER FOR						
PERLANTIKAN PANEL BAGI KERJA-KERJA PENYELENGGARAAN SISTEM RANGKAIAN PAIP SERTA LAIN-LAIN KERJA BERKAITAN DI DAERAH MELAKA TENGAH, JASIN DAN						
ALOR GAJAH BAGI TEMPOH SATU (1) TAHUN						
mengikut Pelan-Pelan No - in accordance with Drawing Nos.						
dan lain-lain pelan terperinci yang diberi untuk menerangkannya. and any other detail drawing suppliesd in amplification thereof.						
Salinan - salinan Dokumen Meja Tender yang merangkumi Perjanjian Kontrak, Copies of the Tender Table Documents comprising the Contract Agreement,						
Pelan-pelan tersebut di atas, Spesifikasi dan Dokumen Tender yang lain boleh dilihat di tempat yang the above-mentioned Drawings, Specification and other Tender Documents may be seen at the place						
dinyatakan dalam Notis Tender dalam masa waktu pejabat pada mana - mana hari bekerja specified in the Tender Notice during office hours on any working day						
hingga tarikh akhir yang ditetapkan bagi penyerahan tender. until the final date fixed for the submission of tenders.						
Kepada: To: Ketua Pegawai Esekutif Syarikat Air Melaka Berhad Lot 897, Wisma Air Jalan Hang Tuah, 75300 Melaka (Pihak menerima tender)						
TUAN, Di bawah dan tertakluk kepada Syarat - Syarat Membuat Tender yang dilampirkan bersama ini, Under and subject to the Conditions of Tendering annexed hereto,						
yang bertandatangan di bawah ini adalah dengan ini membuat tender dan menawar untuk the undersigned does hereby tender and offer to						
melaksana dan menjalankan Kerja - kerja dan peruntukan - peruntukan dan membekalkan semua execute and perform the Works and provisions and supply all						
buruh, bahan dan loji dan segala benda dari tiap - tiap jenis yang masing - masing disebut, labour, materials and plants and everything of every kind respectively named,						
ditunjuk, diperihal dan dimasudkan dalam atau yang hendaklah ditakrifkan daripada Dokumen shown, described and alluded to in, or to be inferred from the Tender						
Tender, yang hendaklah dilaksanakan dan dibekalkan oleh pihak Kontraktor, bagi Kerja-kerja yang Documents, to be executed and supplied on the part of Contractor, for the Works						
diperihalkan di atas, dengan menepati Dokumen Tender tersebut bagi jumlah wang pukal yang above described, in conformity with the Tender Documents for the lump sum						
disebutkan di bawah ini. named herein below.						

- 2. Yang bertandatangan di bawah ini bersetuju menjadi terikat oleh dan tunduk kepada Syarat-The undersigned agrees to be bound by and submit to the Conditions Syarat Kontrak dan Spesifikasi tersebut dan bersetuju bahawa jika Tender yang disetujui terima, of Contract and Specification and agrees that if this Tender is accepted, the harga dan kadar harga dalam Jadual Kadar Harga dan Ringkasan Tender hendaklah diteliti dan price and rates in the Schedule of Rate and Summary of Tender Shall be scrutinized and diselaraskan oleh Pegawai Penguasa tentang kemunasabahannya tetapi jumlah wang pukal yang adjusted by the Superintending Officer as to their reasonableness but the lump sum tendered ditenderkan di bawah ini hendaklah tetap tak berubah. Jadual Kadar harga, selepas diselaraskan herein below shall remain unaltered. TheSchedule of Rates, after adjustment sebagaimana yang diperuntukkan dalalm Syarat-sayarat Kontrak, hendaklah menjadi asas bagi as by the Condition of Contract provided, shall form the basic of valuation of menilaikan apa-apa perubahan yang mungkin diarahkan oleh Pegawai Penguasa dari semasa ke any variation which may from time to time be ordered by the superintending ke semasa, tetapi jika sesuatu perubahan itu melibatkan peninggalan atau pertambahan menyeluruh Officer, but where a variation involves the omission or addition of the sesuatu butiran kerja yang terhadapnya harga ada diberikan dalam Ringkasan Tender, maka any item of work against which the price is given in the Summary of Tender, then harga dalam Ringkasan Tender itu hendaklah menjadi asas bagi menilaikan perubahan itu. such price in the Summary of Tender shall from the basic of valuation of such variation.

 Yang bertandatangan di bawah ini selanjutnya bersetuju bahawa Ringkasan Tender itu hendaklah Theundersigned agrees that the Summary of Tender shall also form the bagi Perakuan menjadi menilaikan Bayaran Sementara. juga asas basic for thevaluation ofInterim Payment Certificate.
- selanjutnya, yang bertandatangan di bawah ini bersetuju menyiapkan Kerja-Kerja itu 3. Dan futher, the undersigned agrees to complete the dalam masa <u>1 Tahun</u> hari/minggu/bulan* dari tarikh pemilikan tapakbina atau dalam apa-apa tempoh lanjutan within days/weeks/months from the date of possession of site or within such extended time dalam Syarat-Syarat Kontrak. yang diperuntukan as by the Conditions of Contract provided.

4.	Jumlah	amaun	Tender	ini	ialah	jumlah	wang	pukal	sebanyak	Ringgit
Se	The tota	<i>l amou</i> kadar ha	nt of	this ditet	Tene	der is	the zarikat	lump Air Me	sum of laka Berha	<i>Ringgit</i> d
										y
	ı, RM									
i.e.										

5.		bertandatangan undersigned										
_	bagi	kerja berikut	yang mana	dijalan	kan seca	ara langsung	oleh	yang	bertanda	tangan	di baw	vah ini
dala	m po	<i>following</i> erjalanan bia	sa perniag	aannya	dan	yang bagin	ıya	Wang	Kos	Prima	atau	Wang
		directly carr sementara tel			J			Cost	or	Provis	ional	Sums
		included in										

6. Bahawasanya adalah diketahui bahawa Syarikat Air Melaka Berhad sentiasa berhak menyejuterima atau menolak Whereas it is understood that the Syarikat Air Melaka Berhad reserves the right to accept or Tender ini, sama ada ianya lebih rendah atau lebih tinggi daripada tender-tender yang lain, atau to refuse this Tender, whether it be lower or higher than any other tender, or sama amaunnya. Yang bertandatangan di bawah ini bersetuju yang Tender ini akan berterusan of the same amount. The undersigned agrees that this Tender shall remain sah dan tidak akan ditarik balik dalam tempoh sembilan puluh (90) hari dari tarikh akhir yang valid and shall not be withdrawn within ninety (90) days from the final date

ditetapkan bagi penyerahan tender dan bersetuju bahawa tiada apa-apa had, syarat atau janji fixed for the submission of tenders and agrees that no other term, condition or stipulation lain akan dikenakan oleh kami selepas tarikh tersebut.

shall be imposed by us after the said date.

- 7. Yang bertandatangan di bawah ini bersetuju, jika Tender ini disetujuterima, mendeposit,
 The undersigned agrees, in the event of acceptance of this Tender, to deposit,
 dengan seberapa segera yang praktik selepas penerimaan Surat Setujuterima Tender tetapi sebelum
 as soon as is practicable after the receipt of the Letter of Acceptance of Tender but before the
 bermulanya Kerja-Kerja, perkara-perkara berikut:
 commencement of the Works, the followings:
 - (a) Bon Perlaksanaan; *Performance Bond;*
 - (b) Polisi Insurans Tanggungan Awam (iaitu insurans terhadap bencana kepada orang-orang Insurance Policy for Public Liability (i.e. insurance agains injury to persons dan kerosakan kepada harta) atau Nota Liputan beserta dengan resit bagi premium yang and damage to property or the Cover Notes together with receipts of premium paid in

telah dibayar; respect thereof;

- (c) Nombor pendaftaran di bawah Skim Keselamatan Sosial Pekerja (PERKESO); dan / atau Registration number under Employee's Social Security (SOCSO) Scheme; and / or
- (d) Polisi Insurans Pampasan Pekerja atau Nota Liputan beserta dengan resit bagi premium Insurance Policy for Workmen's Compensation or the Cover Notes together with receipts yang telah dibayar.

 of premium paid in respect thereof.

Yang bertandatangan di bawah ini selanjutnya bersetuju mendeposit Polisi Insurans bagi KerjaThe undersigned further agrees to deposit the Insurance Policy for the Works
Kerja itu dan melaksanakan Perjanjian Kontrak yang formal dalam masa yang munasabah
And to execute the formal Contract Agreement within a reasonable time
selepasnya itu.
thereafter.

- 8. Yang bertandatangan di bawah ini dengan ini juga bersetuju bahawa Borang Tender ini Theundersigned hereby also agrees that this Form ofTender together Surat Setujuterima Tender ini (jika ada) hendaklah menjadi kontrak yang mengikat the Letter of Acceptance of Tender (if any) shall constitute a binding contract antara kita walaupun Perjanjian Kontrak yang formal belum dilaksanakan. between us notwithstanding that a formal Contract Agreement has not been executed.
- 9. Yang bertandatangan di bawah ini mengesahkan, selepas menyemak sendiri, bahawa dokumendocuments undersigned confirms, after a scrutiny, The personal that the dokumen dan pelan-pelan yang digunakan oleh yang bertandatangan di bawah ini untuk menyusun undersigned drawings in compiling used bythe Tender ini adalah salinan-salinan yang sebenarnya bagi dokumen-dokumen dan pelan-pelan yang ofTender are true copies thedocuments and drawings included dimasukkan dalam Dokumen Meja Tender. in the Tender Table Documents.
- 10. Yang bertandatangan di bawah ini bersetuju bahawa: The undersigned agrees that:
 - (a) jika Tender ini ditarik balik sebelum tamatnya Tempoh Sah Tender atau apa-apa tempoh if this Tender is withdrawn before the expiry of the Tender Validity Period or any lanjutan, atau extended period thereof, or
 - (b) jika yang bertandatangan di bawah ini mengenakan apa-apa had, syarat atau janjian if the undersigned imposes any additional terms, condition or stipulation tambahan kepada Tender ini selepas tarikh akhir yang ditetapkan bagi penyerahan tender, to the Tender after the final date fixed for the submission of tenders,

atau or

(c) jika sekiranya Tender telah disetujuterima, yang bertandatangan di bawah ini enggan dan in the event that the Tender having been accepted, the undersigned refuses and tidak melaksanakan Perjanjian Kontrak yang formal atau mendeposit Bon Perlaksanaan fails to execute the formal Contract Agreement or to deposit the Performance Bond sebagaimana dikehendaki oleh Syarat-Syarat Kontrak atau tidak meneruskan Kerja - Kerja as required by the Conditions of Contract or fails to proceed with the Works;

maka, dalam mana-mana hal itu, tanpa menyentuh apa-apa hak lain yang ada padanya, then, in any of such event, without prejudice to any other rights it may posses, the

Syarikat Air Melaka Berhad sentiasa berhak mengambil tindakan tatatertib terhadap yang bertandatangan Syarikat Air Melaka Berhad reserves the rights to take disciplinary action against the undersigned or to

di bawah ini atau membatalkan pendaftaran yang bertandatangan di bawah sebagai kontraktor cancel the registration of the undersigned as a Syarikat Air Melaka Berhad contractor, as the

Syarikat Air Melaka Berhad sebagaimana difikirkan perlu oleh Syarikat Air Melaka Berhad. Syarikat Air Melaka Berhad deems fit.

Bertarikh pada	haribulan	, 20
	J J	
Tandatanga	n Petender	
Signature o	f Tenderer	
Nama Penuh Name in Full		
Atas sifatIn the capacity of		
Yang diberi kuasa dengan Untuk menandatangani Te Dan bagi pihak:	nder ini untuk	
duly authorised to sign thi. on behalf of:	s Tender for and	
	u cap Petender s seal or chop	
SaksiWitness		
Nama Penuh		
PekerjaanOccupation		
Alamat		

BAHAGIAN D

SURAT AKUAN PEMBIDA DAN SURAT AKUAN PEMBIDA BERJAYA

SURAT AKUAN PEMBIDA

PERLANTIKAN PANEL BAGI KERJA-KERJA PENYELENGGARAAN SISTEM RANGKAIAN PAIP SERTA LAIN-LAIN KERJA BERKAITAN DI DAERAH MELAKA TENGAH, JASIN DAN ALOR GAJAH BAGI TEMPOH SATU (1) TAHUN

No Rujukan Tawaran : SAMB/21/2025

Sava					(Nama	Wakil	Svarikat)	Nο	Kad
•					•		• ,		
Penge	naian			yang me	макііі				
(Nama	l	Syarikat)	nombor	Penda	ıftaran				
(MOF/	PKK/CI	DB/ROS/RO	C/ROB) den	gan ini mer	ıgisytiharka	an baha	wa saya a	ıtau m	າana-
mana (orang y	ang mewakili	syarikat ini:						
i. ii.	mana- lain, se	akan menaw mana orang ebagai suapa kan melakuk	dalam mana n untuk dipili	a-mana Kem h dalam ma	enterian/Aoุ าล-mana pe	gensi at erolehan	au mana-m ; dan	nana d	orang
		ilampirkan Sı membuat per			ıgi saya me	ewakili s	yarikat sepe	erti ter	catat
2.	Sekira	nya saya, ata	au mana-ma	na individu y	ang mewa	kili syari	kat ini dida	pati te	rlibat
	dalam	pakatan tipu	ıan bida der	igan syarika	t lain berke	enaan p	erolehan d	i atas	atau
	menav	varkan, men	ianiikan atau	ı memberika	n apa-apa	suapar	n kepada n	nana-r	nana
		dalam	•			•	•		
	•				•		`	•	
		mana orang	•	•	•		•		
	-	maka saya s	sebagai wak	l syarıkat be	ersetuju tin	idakan-ti	ndakan be	rikut I	ooleh
	diambi	il:							
	2.1	Hilang kelay	akan untuk d	dinilai dan di	antik bagi լ	peroleha	ın di atas; d	lan	
	2.2	Lain-lain undang/pera	tindakan aturan perole	undang-un han Kerajaa	J		mengikut asa	unc	dang-

- 3. Saya sesungguhnya faham bahawa--
 - 3.1 saya atau mana-mana orang yang berkaitan dengan syarikat boleh didakwa bagi kesalahan* di bawah Akta Suruhanjaya Pencegahan Rasuah Malaysia 2009 [Ata 694] dan Kanun Keseksaan [Akta 574] serta boleh dihukum di bawah undang-undang masing-masing atas kegagalan saya atau mana-mana orang yang mewakili syarikat ini untuk mematuhi perkara (i) dalam surat akuan ini; atau
 - 3.2 tindakan boleh dikenakan ke atas syarikat di bawah Akta Persaingan 2010 [Akta 712] atas kegagalan saya atau mana-mana orang yang mewakili syarikat ini untuk mematuhi perkara ii) dalam surat akuan ini. Sekiranya syarikat didapati melanggar peruntukan seksyen 4(2)(d) Akta 712, syarikat

boleh didenda tidak melebihi sepuluh peratus (10%) daripada pusing ganti (turn over) seluruh dunia sepanjang tempoh suatu pelanggaran itu berlaku.

- 4. Sekiranya terdapat mana-mana orang cuba memperolehi atau meminta apa-apa suapan daripada saya atau mana-mana orang yang berkaitan dengan syarikat ini sebagai dorongan untuk dipilih dalam perolehan seperti di atas, maka saya berjanji akan dengan segera melaporkan perbuatan tersebut kepada pejabat Suruhanjaya Pencegahan Rasuah Malaysia (SPRM) atau balai polis yang berhampiran. Saya sedar bahawa kegagalan saya berbuat demikian adalah merupakan suatu kesalahan di bawah seksyen 25 (1) Akta Suruhanjaya Pencegahan Rasuah Malaysia 2009 [Akta 694] dan boleh dihukum di bawah seksyen 25 (2) akta yang sama, apabila disabitkan boleh didenda tidak melebihi RM100,000 atau penjara selama tempoh tidak melebihi sepuluh tahun atau kedua-duanya.
- 5. Saya sesungguhnya faham bahawa syarikat melakukan kesalahan jika seseorang yang bersekutu dengan syarikat** memberikan, menjanjikan atau menawarkan suapan untuk memperoleh atau mengekalkan perniagaan atau faedah dalam menjalankan perniagaan di bawan Seksyen 17A, Akta Suruhanjaya Pencegahan Rasuah Malaysia 2009 [Akta 6941, apabila disabitkan kesalahan boleh didenda tidak kurang daripada sepuluh kali ganda jumlah atau nilai suapan, atau RM1 juta, atau dipenjarakan selama tempoh tidak melebihi dua puluh tahun atau kedua-duanya.

Tandatangan	
Nama	·
No.K/P	·
Tarikh	·
Cap Syarikat	1

Catatan:

Yang benar,

- i) *termasuk kesalahan ditetapkan dalam Jadual (Perenggan 3 (a), takrif "kesalahan ditetapkan") Akta Suruhanjaya Pencegahan Rasuah Malaysia 2009 [Akta 694] yang boleh dihukum di bawah Kanun Keseksaan [Akta 574].
- ii) **seseorang yang bersekutu dengan syarikat merujuk kepada seksyen 17A (6) Akta Suruhanjaya Pencegahan Rasuah Malaysia 2009 [Akta 694], iaitu seseorang itu bersekutu dengan organisasi komersial jika dia seorang pengarah, pekongsi atau pekerja organisasi komersial itu atau dia ialah orang yang melaksanakan perkhidmatan untuk atau bagi pihak organisasi komersial itu.
- iii) Surat Akuan ini hendaklah dikemukakan bersama surat perwakilan kuasa.
- iv) Takrifan perusahaan di bawah Akta 712 merangkumi syarikat yang terlibat dengan perolehan

Pihak Syarikat :Penama pada sijil pendaftaran untuk menandatangani Surat ini.
Pihak Kerajaan :Pegawai yang diberi kuasa oleh Menteri di bawah seksyen 2 Akta Kontrak Kerajaan1949 untuk menandatangani kontrak

SURAT AKUAN PEMBIDA BERJAYA

PERLANTIKAN PANEL BAGI KERJA-KERJA PENYELENGGARAAN SISTEM RANGKAIAN PAIP SERTA LAIN-LAIN KERJA BERKAITAN DI DAERAH MELAKA TENGAH, JASIN DAN ALOR GAJAH BAGI TEMPOH SATU (1) TAHUN

No Rujukan Tawaran : SAMB/21/2025

Saya,	(Nama Wakil Syarikat) No. Kad
	nalanyang mewakili
(Nama	Syarikat) nombor Pendaftaran
(MOF/	PKK/CIDB/ROS/ROC/ROB) dengan ini mengisytiharkan bahawa saya atau mana-
mana (orang yang mewakili syarikat ini:
n la	idak akan menawarkan, menjanjikan atau memberikan apa- apa suapan kepada nana-mana orang dalam mana-mana Kementerian/Agensi atau mana-mana orang ain, sebagai suapan untuk dipilih dalam mana-mana perolehan; idak akan melakukan atau terlibat dengan tipuan bida dalam mana-mana perolehan.
	ma ini dilampirkan Surat Perwakilan Kuasa bagi saya mewakili syarikat seperti tercatat untuk membuat pengisytiharan ini.
2.	Sekiranya saya, atau mana-mana individu yang mewakili syarikat ini didapati terlibat dalam membuat pakatan harga dengan syarikat lain atau apa-apa pakatan sepanjang proses perolehan atau menawarkan, menjanjikan atau memberikan apa-apa suapan kepada mana-mana orang dalam(Nama Kementerian/Agensi) atau mana-mana orang lain sebagai dorongan untuk dipilih dalam perolehan seperti di atas, maka saya sebagai wakil syarikat bersetuju tindakan-tindakan berikut boleh diambil:

- 2.1. Penarikan balik tawaran kontrak bagi perolehan di atas; atau
- 2.2. Penamatan kontrak bagi perolehan di atas; dan
- 2.3. Lain-lain tindakan undang-undang/tatatertib mengikut undang-undang/peraturan perolehan Kerajaan yang berkuatkuasa.
- 3. Saya sesungguhnya faham bahawa--
 - 3.1 saya atau mana-mana orang yang berkaitan dengan syarikat boleh didakwa bagi kesalahan* di bawah Akta Suruhanjaya Pencegahan Rasuah Malaysia 2009 [Akta 694] dan Kanun Keseksaan [Akta 574] serta boleh dihukum di bawah undang-undang masing-masing atas kegagalan saya atau mana-mana orang yang mewakili syarikat ini untuk mematuhi perkara (i) dalam surat akuan ini; atau

- 3.2 tindakan boleh dikenakan ke atas syarikat di bawah Akta Persaingan 2010 [Akta 712) atas kegagalan saya atau mana-mana orang yang mewakili syarikat ini untuk mematuhi perkara ii). Sekiranya syarikat didapati melanggar peruntukan seksyen 4(2)(d) Akta 712, syarikat boleh didenda tidak melebihi sepuluh peratus (10%) daripada pusing ganti (turn over) seluruh dunia sepanjang tempoh suatu pelanggaran itu berlaku.
- 4. Sekiranya terdapat mana-mana orang cuba memperolehi atau meminta apa-apa suapan daripada saya atau mana-mana orang yang berkaitan dengan syarikat ini sebagai dorongan untuk dipilih dalam perolehan seperti di atas, maka saya berjanji akan dengan segera melaporkan perbuatan tersebut kepada pejabat Suruhanjaya Pencegahan Rasuah Malaysia (SPRM) atau balai polis yang berhampiran. Saya sedar bahawa kegagalan saya berbuat demikian adalah merupakan suatu kesalahan di bawah seksyen 25 (1) Akta Suruhanjaya Pencegahan Rasuah Malaysia 2009 [Akta 694] dan boleh dihukum di bawah seksyen 25 (2) akta yang sama, apabila disabitkan boleh didenda tidak melebihi RM100,000 atau penjara selama tempoh tidak melebihi sepuluh tahun atau kedua-duanya.
- 5. Saya sesungguhnya faham bahawa syarikat melakukan kesalahan jika seseorang yang bersekutu dengan syarikat** memberikan, menjanjikan atau menawarkan suapan untuk memperoleh atau mengekalkan perniagaan atau faedah dalam menjalankan perniagaan di bawah seksyen 17A Akta Suruhanjaya Pencegahan Rasuah Malaysia 2009 [Akta 694], apabila disabitkan kesalahan boleh didenda tidak kurang daripada sepuluh kali ganda jumlah atau nilai suapan, atau RM1 juta, atau dipenjarakan selama tempoh tidak melebihi dua puluh tahun atau kedua-duanya.

Yang benar,

Tandatangan	······
Nama	:
No.KP	:
Tarikh	:
Cap Svarikat	

Catatan:

- i) *termasuk kesalahan ditetapkan dalam Jadual (Perenggan 3 (a), takrif "kesalahan ditetapkan") Akta Suruhanjaya Pencegahan Rasuah Malaysia 2009 [Akta 694] yang boleh dihukum di bawah Kanun Keseksaan [Akta 574].
- ii) **seseorang yang bersekutu dengan syarikat merujuk kepada seksyen 17A (6) Akta Suruhanjaya Pencegahan Rasuah Malaysia 2009 [Akta 694], iaitu seseorang itu bersekutu dengan organisasi komersial jika dia seorang pengarah, pekongsi atau pekerja organisasi komersial itu atau dia ialah orang yang melaksanakan perkhidmatan untuk atau bagi pihak organisasi komersial itu.
- iii) Surat Akuan ini hendaklah dikemukakan bersama surat perwakilan kuasa.
- iv) Takrifan perusahaan di bawah Akta 712 merangkumi syarikat yang terlibat dengan perolehan Kerajaan.

BAHAGIAN E SURAT SETUJUTERIMA TENDER (SAMB 100D)

SURAT SETUJUTERIMA TENDER (KERJA)

Untuk kerja-kerja yang disebutkan di bawah in oleh pihak-pihak yang bertandatangan di bawa Tender yang menjadi sebahagian daripada kontr diertikan sedemikian	ıh ini, merujuk kepada Surat Setujuterim
Tandatangan Kontraktor	Tandatangan Pegawai
Nama Penuh: (Huruf Besar)	Nama Penuh:(Huruf Besar)
Atas Sifat:	Atas Sifat:
Yang diberi kuasa dengan sempurnanya untuk menandatangani untuk dan bagi pihak	Untuk dan bagi pihak Syarikat Air Melaka Berhad
Meterai atau Cap Kontraktor	
Saksi:	Saksi:
Nama Penuh:	Nama Penuh:
Pekerjaan:	Pekerjaan:
Alamat:	Alamat:

SYARIKAT AIR MELAKA BERHAD

SURAT SETUJUTERIMA TENDER (KERJA)

Rujukan: SAMB.	Ketua Pegawai Eksekutif,
	Syarikat Air Melaka Berhad, Wisma Air, Tingkat Bawah, 1,5-9
	Jalan Hang Tuah,
	75300 Melaka.
	Tarikh:
<u> </u>	
Tuan/Puan,	
Tender untuk:	
RANGKAIAN PAIP SERTA LAIN-LA	-KERJA PENYELENGGARAAN SISTEM IN KERJA BERKAITAN DI DAERAH OR GAJAH BAGI TEMPOH SATU (1)
Dengan ini adalah diberitahu bahawa Tend berharga Ringgit Malaysia:	er tuan/puan bagi kerja-kerja tersebut di atas
	<u>)</u> telah disetujuterima, tertakluk
kepada had, syarat dan perjanjian dalam Dodan juga kepada surat ini.	<u>)</u> telah disetujuterima, tertakluk okumen Tender yang menjadi asas Tender ini
	kan Perjanjian Kontrak yang formal dalam
dilaksanakan, Tender tuan/puan berserta S	ggalah Perjanjian Kontrak yang formal itu Surat Setujuterima Tender ini akan menjadi
kontrak yang sah mengikat di antara tuan/pua	an dan Syarikat.

3. Tuan/Puan akan diberitahu bila Dokumen Kontrak siap sedia untuk ditandatangani. Bagaimanapun sebelum Dokumen Kontrak ditandatangani, harga dan kadar harga dalam Jadual Kadar Harga dan/atau Ringkasan Tender atau Senarai Kuantiti, mengikut mana yang berkenaan, hendaklah teliti dan diselaraskan oleh Pegawai Penguasa tentang kemunasabahannya tetapi Jumlah Harga Kontrak seperti tersebut di atas hendaklah tetap

tidak berubah.

4.	Tuan/Puan dikehendaki menyatakan pilihan kaedah Bon Perlaksanan sama a		
	i)	Jaminan Bank / Bank Islam /Bank Pembangunan & Infrastruktur Malaysia Berhad (BPIMB) atau	
	ii) iii)	Jaminan Syarikat Kewangan atau Jaminan Insurans/ Takaful	
5. pada _ setelał		milik tapak bina, seperti yang disebutkan dalam Syarat-syarat Kontrak, ialah Walaubagaimanapun, tuan/puan hanya boleh memulakan kerja uan menyerahkan kepada Pegawai Penguasa perkara-perkara berikut:-	
	a)	Polisi Insurans Tanggungan Awam (iaitu insurans terhadap bencana kepada orang-orang dan kerosakan kepada harta) nilai insurans tidak kurang daripada RM	
	b)	Polisi Insurans Kerja iaitu <u>RM</u>	
	c)	Nombor-nombor pendaftaran di bawah Skim Keselamatan Sosial Pekerja (PERKESO) atau	
	d)	Polisi Insuran Pampasan Pekerja berjumlah tidak kurang daripada RM	
menye premit Polisi-	rahkan ım yanş polisi Iı tempo	nanapun, bagi memulakan kerja-kerja dan bukan maksud lain, tuan boleh Nota-nota Liputan bagi maksud polisi-polisi insurans tersebut dan resit-resit g telah dibayar itu kepada Pegawai Penguasa. Tuan dikehendaki menyerahkan nsurans yang berkenaan (jika belum diserahkan) menurut perenggan 5 di atas, h tidak lewat daripada tiga puluh (30) hari selepas Nota-nota Liputan	
6. tuan/p		Puan perlu memilih salah satu daripada kaedah di para 4 (i), 4 (ii) atau 4 (iii), daklah menyerahkan Bon Pelaksanaan bernilai RM	
-	akan n	alan tuan memulakan kerja dalam tempoh dua (2) minggu dari tarikh milik nengakibatkan pengambilan kerja tuan/puan di bawah kontrak ditamatkan n Fasal 51(b) (i) Syarat-syarat Kontrak.	
8. Empa ialah		sarkan kepada Tempoh Siap Kerja yang ditenderkan selama <u>Dua Puluh</u> ari/minggu/bulan*,Tarikh Siap untuk seluruh kerja-kerja di bawah kontrak ini	

asal dan satu (1) salinan, yang telah ditang	dalam tiga (3) salinan. Sila kembalikan salinan datangai oleh tuan/puan dan disaksikan dengan abat ini dalam tempoh tujuh (7) hari dari tarikh
Sekian, terima kasih.	
"MELAKAKU MAJU JAYA, RAKYAT "BIJAK LAKSANA TUAH, BERANI LA "MALAYSIA MADANI" "INTERGRITI, PROFESIONALISME,	AKSANA JEBAT"
(DATUK MOHD SALEH BIN JUSMAN Ketua Pegawai Eksekutif Syarikat Air Melaka Berhad Dengan ini yang bertandatangan di bawah in	
Ton datan oon V antusktan	Tandatangan Saksi
Tandatangan Kontraktor	Ç
Nama Penuh:	Nama Penuh:
Atas Sifat:	Nama Jawatan:
Diberikan dengan sempurna untuk menandatangi untuk dan bagi pihak:	Alamat:
Meteri atau Cop Kontraktor	
Tarikh:	Tarikh:

BAHAGIAN F KEHENDAK-KEHENDAK PROJEK

KEHENDAK-KEHENDAK PROJEK

1. KENYATAAN AM

- 1.1 Penender yang berjaya hendaklah memajukan kenyataan cara bekerja ('Method Of Statement') dan carta organisasi syarikat untuk kelulusan Pegawai Penguasa.
- 1.2 'Kenyataan cara bekerja' tersebut hendaklah merangkumi kerja-kerja pembaikan paip, penggantian/pembaikan injap dan kerja-kerja memperbaiki jalan tar serta lain-lain kerja berkaitan dimana ianya akan menjadi sebahagian daripada Dokumen Kontrak.
- 1.3 Carta organisasi yang dimajukan tersebut hendaklah merangkumi personalpersonal utama di dalam syarikat, kakitangan sokongannya termasuk penyelia tapak, penyelia keselamatan dan lain-lain yang terlibat di dalam kontrak tersebut.
- 1.4 Kontraktor tidak dibenarkan menggunakan nama atau logo SAMB untuk digunakan di kenderaan, pakaian/T-Shirt, papan tanda, peralatan keselamatan dan lain-lain. Tetapi dicadangkan menggunakan perkakasan dengan tertera nama "Kontraktor Penyelenggaran Paip SAMB".

2. AKTA KESELAMATAN DAN KESIHATAN PEKERJAAN 1994

- 2.1 Kontraktor juga diwajibkan untuk mematuhi Akta Keselamatan dan Kesihatan Pekerjaan 1994 sebagaimana dilampiran No. 1. Kegagalan pihak kontraktor mematuhi kehendak-kehendak keselamatan seperti yang dilampirkan, membolehkan pihak SAMB mengenakan **DENDA** pada kadar seperti di bawah :
 - a) Kesalahan tidak memakai Personal Protection Equipment (PPE)= RM 50.00 per kes.
 - Kesalahan tidak mematuhi Sistem Pengurusan Keselamatan Dan Kesihatan Pekerjaan (OHSMS)
 RM 300.00 per kes

3. PERLAKSANAAN KERJA-KERJA PAIP PECAH DAN BOCOR

Sila ambil perhatian berkaitan perkara-perkara berikut:-

- 3.1 Tempoh Penyiapan Kerja
 - 3.1.1 Paip pecah hendaklah diperbaiki dalam tempoh 18 jam daripada aduan diterima dari pelanggan (Arahan akan diberi kepada kontraktor selewat-lewatnya 12 jam selepas aduan diterima dari pelanggan)
 - 3.1.2 Paip Bocor (dengan gangguan kepada bekalan) hendaklah diperbaiki dalam tempoh 18 jam daripada aduan pelanggan (Arahan akan diberi kepada kontraktor selewat-lewatnya 12 jam selepas aduan diterima dari pelanggan)

KEHENDAK-KEHENDAK PROJEK

- 3.1.3 Paip bocor (tanpa gangguan kepada bekalan) hendaklah diperbaiki dalam tempoh 36 jam daripada aduan pelanggan. (Arahan akan diberi kepada kontraktor selewat-lewatnya 24 jam selepas aduan diterima dari pelanggan)
- 3.2 Sekiranya kontraktor gagal untuk menyiapkan kerja-kerja yang diarahkan dalam tempoh sebagaimana yang dinyatakan di atas, SAMB berhak untuk mengenakan **DENDA** kepada kontraktor dan pengiraan **DENDA** tersebut adalah sebagaimana kiraan di bawah :-

3.2.1 Paip Pecah disiapkan

a) Melebihi 18 jam ke 24 jam (daripada RM 300.00 aduan pengguna)

b) Selepas 24 jam RM 100.00/jam

(daripada aduan pengguna) (untuk jam berikutnya + bilangan

sebenar lori tangki yang dibekalkan

(RM 350.00 per trip)

3.2.2 Paip bocor disiapkan

(dengan gangguan kepada bekalan)

a) Melebihi 18 jam ke 30 jam RM 150.00

b) Selepas 30 jam RM 20.00/jam

(untuk jam berikutnya)

3.2.3 Paip Bocor disiapkan

(tanpa gangguan kepada bekalan)

a) Melebihi 36 jam ke 60 jam RM 100.00

b) Selepas 60 jam RM 15.00/jam

(untuk jam berikutnya)

- 3.3 Terdapat pengecualian untuk kehendak-kehendak di atas dengan syarat jika berlaku perkara-perkara seperti di bawah :
 - a) Oleh kerana 'Force Majeure'.
 - b) Oleh sebab yang tidak diduga atau diluar kawalan kontraktor untuk melaksanakan kerja-kerja dengan teratur dan sempurna.
 - c) Oleh sebab arahan-arahan yang diberi oleh Pegawai Penguasa.
 - d) Oleh sebab cuaca yang sangat buruk yang menghalang daripada kerjakerja dapat dilaksanakan dengan sempurna.

KEHENDAK-KEHENDAK PROJEK

4. KERJA-KERJA MEMBAIKPULIH JALAN BERTURAP DAN BAHU JALAN

- Kontraktor_DIWAJIBKAN untuk menyediakan sekurang-kurangnya lori 1 tan yang khas digunakan hanya untuk membawa muatan Papan Tanda Lalulintas sementara dan Kelengkapan Keselamatan jalan raya yang lain pada setiap masa untuk pengawalan keselamatan lalu lintas ditapak bagi setiap kerja yang dilaksanakan. Papan tanda dan kelengkapan keselamatan tersebut hendaklah kekal di tapak sehingga kerja-kerja siap dan kawasan kerja tersebut selamat kepada pengguna jalan raya.
- 4.2 Kontraktor yang gagal menyediakan Papan Tanda Keselamatan sementara dan dan Kelengkapan Keselamatan jalan raya yang lain seperti yang dikehendaki sebagaimana mengikut piawaian standard JKR/Berkuasa Tempatan dan jika sekiranya pihak SAMB menerima aduan daripada Pihak JKR/Berkuasa Tempatan atau orang awam, secara lisan atau bertulis, lanjutan daripada kegagalan tersebut, pihak SAMB berhak untuk mengenakan **DENDA** kepada kontraktor pada setiap lokasi pada kadarharga **RM300.00 per ID kerja.**
- 4.3 Kerja-kerja membaikpulih semula jalan berturap hendaklah dilaksanakan pada hari yang sama kerja-kerja baiki paip pecah/bocor disiapkan. Sekiranya tidak dapat dilaksanakan pada hari yang sama atau pada hari tersebut tidak dapat diperolehi bahan-bahan premix disebabkan oleh cuti mingguan, cuti umum atau pada hari-hari dimana bekalan premix tidak dapat diperolehi, penggunaan plat keluli dibenarkan dan penggunaannya adalah sebagai langkah sementara. Penggunaan 'Cold Mix' untuk tujuan langkah sementara juga dibenarkan dengan syarat tertakluk kepada kelulusan Pegawai Penguasa.
- 4.4 Timbusan semula kawasan bahu jalan hendaklah menggunakan pasir dari dasar lubang korekan sehingga menutup bahagian atas paip setebal tidak kurang 150mm sebelum menimbus dengan bahan lain yang bersesuaian.
- 4.5 Kontraktor dikehendaki menggunakan sekurang-kurangnya Roller (1 Tan) bagi kerja-kerja pemadatan jalan tar/premix.
- 4.6 Kontraktor adalah diwajibkan untuk membaikpulih semula kerja-kerja jalan yang telah dikorek dengan mematuhi kehendak-kehendak piawaian Standard JKR atau Pihak Berkuasa Tempatan seperti yang telah ditetapkan. Kontraktor yang gagal membaikpulih semula jalan tar/premix sebagaimana mengikut piawaian standard dan jika sekiranya pihak SAMB menerima aduan daripada Pihak JKR/Berkuasa Tempatan atau orang awam, secara lisan atau bertulis, lanjutan daripada kualiti kerja yang tidak sempurna, pihak SAMB berhak untuk mengenakan **DENDA** kepada kontraktor pada setiap lokasi yang terlibat pada kadar seperti di bawah.
 - a) Jalan Premix / Dataran Kejat = RM 500.00 / ID kerja
 - b) Bahu Jalan = RM 300.00 / ID kerja

KEHENDAK-KEHENDAK PROJEK

- 4.7 Walaupun denda telah dikenakan ke atas kontraktor, adalah menjadi tanggungjawab kontraktor untuk membaikpulih lokasi dengan kos pihak kontraktor sendiri mengikut piawaian standard dalam tempoh 24 jam dari tarikh terima notis bertulis/lisan daripada SAMB dan kerja-kerja pembaikan semula tersebut, kualiti kerjanya hendaklah memuaskan hati Pegawai Penguasa atau wakilnya.
- 4.8 Pengurus, penyelia-penyelia dan sekurang-kurangnya 4 pekerja kontraktor dikehendaki menghadiri kursus Pembaikan Jalan yang akan dianjurkan oleh SAMB. Setiap kumpulan kerja kontraktor yang melaksanakan kerja hendaklah mempunyai sekurang-kurangnya 2 pekerja yang telah hadir kursus tersebut. Hanya kumpulan kerja yang memenuhi criteria ini akan dibenarkan menjalankan kerja-kerja pembaikan paip termasuk apa-apa kerja-kerja yang berkaitan dengannya. Mereka dikehendaki sentiasa membawa Kad Kehadiran kursus tersebut semasa berada ditapak.

5. JAMINAN KUALITI KERJA

- 5.1 Kontraktor hendaklah memberi jaminan kualiti kerja yang bermutu dan jika kerjakerjanya tidak mencapai piawai standard, kerja-kerja tersebut hendaklah diperbaiki sehingga mencapai ke piawaian standard dan kos pembaiki tersebut ditanggung oleh kontraktor sendiri.
- 5.2 Sekiranya pihak kontraktor gagal untuk mematuhi piawaian standard tersebut di atas, Pihak SAMB berhak untuk melantik pihak ketiga untuk menyempurnakan kerja-kerja yang tertinggal dan kos yang terlibat di dalam menyempurnakan kerja-kerja tersebut akan ditanggungjawabkan kepada kontraktor ditambah 10% peratus kos caj.
- 5.3 Selain itu apa-apa kerugian dan kerosakan yang dialami oleh SAMB akibat kegagalan pihak kontraktor mematuhi piawaian standard akan dipertanggungjawabkan kepada kontraktor.

6. KEBERSIHAN TAPAK BINA

- 6.1 Kontraktor hendaklah memastikan bahawa setiap lokasi tapak kerja yang telah disiapkan, bersih daripada sebarang bahan-bahan buangan atau yang berkaitan dengannya dan lokasi tapak binaan berada dalam keadan asalnya. Kegagalan pihak kontraktor mematuhi kebersihan di tapak bina semasa dan selepas kerja dilaksanakan, pihak SAMB berhak mengenakan **DENDA** kepada kontraktor pada setiap lokasi yang terlibat pada kadar **RM 100.00 / setiap ID kerja.**
- 6.2 Sekiranya pihak kontraktor gagal untuk mematuhi kebersihan di tapak bina, pihak SAMB berhak untuk melantik pihak ketiga untuk menyempurnakan kerja-kerja yang tertinggal dan kos yang terlibat di dalam menyempurnakan kerja-kerja tersebut akan dipertanggungjawabkan kepada kontraktor dan ditambah 10% peratus kos caj

KEHENDAK-KEHENDAK PROJEK

7. REKOD PENYIMPANAN BARANG

- 7.1 Kontraktor diminta menyimpan rekod mengenai barang-barang yang dikeluarkan dari stor SAMB dan bahan-bahan yang telah digunakan. Semakan dan pengesahan barang-barang tersebut akan di lakukan oleh pihak SAMB secara bulanan. Semua barang-barang yang tidak digunakan atau lebihan hendaklah dikembalikan ke stor SAMB yang berhampiran pada akhir kontrak. Sekiranya pihak kontraktor gagal untuk mengembalikan barangan tersebut. Pihak SAMB berhak untuk mengenakan denda dan kiraan denda tersebut adalah berdasarkan kepada kiraan harga semasa barangan yang tidak dikembalikan.ditambah dengan 10% kos caj.
- 7.2 Bagi barang-barang terpakai SAMB yang diperolehi daripada kerja-kerja pembaikkan untuk dilupuskan adalah menjadi hakmilik dan tanggungjawab kontraktor untuk pelupusan, dengan dikenakan caj bayaran balik kepada SAMB pada kadar **0.75**% keatas nilai kerja pembina (Builder's Works) dan akan ditolak daripada tuntutan bayaran kemajuan setiap bulan.

8. GAMBAR-GAMBAR PERLAKSANAAN KERJA

- 8.1 Semua tuntutan-tuntutan kerja hendaklah lengkap disertakan dengan gambar berwarna saiz 4R yang jelas dan menunjukkan:
 - a) Keadaan tapak sebelum kerja pengorekan.
 - b) Keadaan kerosakan paip / pepasangan sediada.
 - c) Keadaan paip / pepasangan yang telah dibaik pulih.
 - d) Keadaan dasar dan sisi-sisi lubang korekan yang bebas dari l umpur/tanah/air/bendasing sebelum timbusan semula.
 - e) Pemadatan lapisan pasir yang menyokong dan melindungi paip sehingga menutupi seluruh bulatan paip.
 - f) Pemadatan setiap lapisan sub-base (pasir) dan ketebalannya.
 - g) Pemadatan setiap lapisan base (crusher run) dan ketebalannya.
 - h) Pemadatan premix / permukaan akhir.
- 8.2 Setiap gambar diatas hendaklah didalamnya terpapar maklumat-maklumat ID kerja, lokasi kerja dan tarikh kerja yang ditulis pada white board. Kesemua gambar-gambar tersebut hendaklah dari sudut penggambaran yang sama bagi mengelakkan sebarang kekeliruan. GAMBAR-GAMBAR HENDAKLAH DIMUAT NAIK DI DALAM SISTEM IJMS SEKIRANYA SISTEM TERSEBUT TELAH SIAP SEDIA UNTUK DIGUNAPAKAI

KEHENDAK-KEHENDAK PROJEK

8.3 SAMB tidak akan membuat bayaran sekiranya tuntutan tidak disertakan dengan gambar-gambar yang lengkap dan jelas seperti diatas sehingga kontraktor mengemukakan semula dalam tempoh 3 bulan dari tarikh siap kerja.

9. <u>KEPERLUAN PERALATAN-PERALATAN BAGI PEMBAIKAN PAIP</u>

- 9.1 Kontraktor dikehendaki menyediakan peralatan yang mencukupi untuk kerja-kerja pembaikan paip terutama pembaikan paip bersaiz besar dengan menyediakan peralatan yang khusus seperti :
 - a) Spannar dan Torque Wrench mestilah bersesuaian dengan saiz Bolt & Nut bagi saiz paip antara 200mm hingga 1200mm diameter paip agar kerjakerja membaikpulih dapat disempurnakan dengan segera.
 - b) Pam air yang diperlukan mestilah berkapasiti bersesuaian dengan perlaksanaan kerja di tapak di mana kontraktor perlu menyediakan pam air sehingga bersaiz 150mm diameter supaya air dapat dikeluarkan dari kawasan kerja dengan segera.

10. TUNTUTAN BAYARAN

- 10.1 SAMB hanya akan membuat bayaran bagi tuntutan-tuntutan yang dikemukakan dalam masa 3 bulan dari tarikh siap kerja sahaja. Tuntutan bagi kerja yang telah melebihi 3 bulan SAMB tidak akan membuat bayaran kecuali atas sebab-sebab yang bukan kecuaian kontraktor.
- 10.2 Bagi tuntutan yang bertindih SAMB akan membuat bayaran untuk satu tuntutan sahaja dan akan mengenakan denda sejumlah 50% daripada nilai harga kerja yang telah dibayar kepada kontraktor.
- 10.3 Kontraktor hendaklah mengembalikan semula ID kerja yang telah disiapkan dalam masa 2 hari selepas kerja disiapkan. Denda RM 10.00 akan dikenakan bagi setiap ID kerja yang dikembalikan melebihi 2 hari selepas kerja disiapkan.

11. TEMPOH TANGGUNGAN KECACATAN

11.1 Tempoh tanggungan kecacatan adalah selama enam (6) bulan selepas Perakuan Siap Kerja diperakukan dan dalam tempoh tersebut pemeriksaan ke atas kecacatan akan dilakukan sekiranya perlu dan jika terdapat aduan daripada pihak ketiga. Sekiranya berlaku kecacatan dalam tempoh tersebut, pihak kontraktor dikehendaki memperbaiki kecacatan dan kos yang terlibat akan dipertanggungjawabkan kepada kontraktor.

KEHENDAK-KEHENDAK PROJEK

12. PENAMATAN KONTRAK

Tarikh:

12.1 SAMB berhak untuk menamatkan kontrak ini atau menggantung kerja kontraktor dalam sesuatu tempoh tertentu pada bila-bila masa tanpa terlebih dahulu memberi sebarang peringatan bertulis tentang kesalahan-kesalahan atau kelemahan-kelemahan kontraktor atau lain-lain sebab. Walaubagaimanapun bagi penamatan kontrak, SAMB akan mengeluarkan notis dalam tempoh 14 hari sebelum tarikh kontrak ditamatkan.

BERSETUJU / **TIDAK BERSETUJU** yang bertandatangan di bawah akan mematuhi **KEHENDAK-KEHENDAK PROJEK** sepertimana yang ditetapkan.

Tandatangan Kontraktor	Tandatangan Saksi
(Nama Penuh :)	(Nama Penuh :
Atas Sifat :	Pekerjaan :
	Alamat :
Diberikuasa Dengan Sempurnanya Untuk Menandatangani Untuk Dan Bagi Pihak	
Meteri Atau Cop Kontraktor	

Tarikh:

1.0 KESELAMATAN PEKERJA KONTRAKTOR (UMUM)

SAMB dapat memainkan peranan yang penting untuk memperbaiki prestasi keselamatan semua kontraktor yang menjalankan kerja-kerja di premis kepunyaan SAMB. Di antara langkah-langkah keselamatan yang boleh diambil bersama oleh SAMB dan pihak pengurusan kontraktor adalah seperti berikut:

- 1.1 Pekerja kontraktor perlu mendapatkan permit yang mengesahkan kemahiran dan pengetahuan mereka dalam mengendalikan kerja yang merbahaya. Pekerja kontraktor perlu mendaftarkan diri di pondok pengawal terlebih dahulu sebelum memasuki premis SAMB. Pekerja kontraktor perlu mendapatkan permit yang berkaitan dari anggota SAMB sebelum memulakan kerja. Permit kerja perlu dilengkapkan dan pengesahan perlu dibuat oleh anggota SAMB sebelum kerja dilaksanakan.
- 1.2 SAMB boleh meminta kontraktor melantik seorang pegawai/penyelia yang bertanggungjawab untuk menyelaraskan tatacara keselamatan di tempat kerja.
- 1.3 SAMB akan memberikan panduan keselamatan yang mesti dipatuhi oleh semua pekerja kontraktor.
- 1.4 SAMB akan menjalankan pemeriksaan mengejut dan audit keselamatan untuk semua kerja yang dijalankan oleh kontraktor.
- 1.5 Kontraktor mesti melaporkan semua jenis Kemalangan, Kejadian Berbahaya, Penyakit Pekerjaan dan Keracunan Pekerjaan kepada SAMB dengan serta merta.
- 1.6 Mesyuarat mengenai hal keselamatan kerap diadakan di antara SAMB dan kontraktor.
- 1.7 Semua kemalangan yang melibatkan pekerja kontraktor disiasat dengan segera.
- 1.8 SAMB menekankan keselamatan sebagai sebahagian dari kriteria proses pemilihan sebelum pemberian tender atau sebut harga diumumkan.
- 1.9 Aspek keselamatan diambil kira sebagai antara faktor utama untuk kelayakan memasuki tender.
- 1.10 Jabatan Keselamatan, Kesihatan dan Alam Sekitar SAMB akan mengawasi prestasi keselamatan kontraktor.
- 1.11 SAMB menjalankan sesi orientasi untuk memberitahu pekerja kontraktor mengenai bahaya keselamatan di tempat kerja dan langkah untuk mengawal dan mencegah kemalangan dari berlaku. Sebelum sesuatu kontrak ditawarkan kepada mana-mana kontraktor SAMB mestilah menyatakan dengan jelas skop kerja yang terlibat dan memberi penekanan kepada pentingnya aspek keselamatan. Maklumat ini adalah paling baik jika disampaikan secara bersemuka dengan kontraktor. Mesyuarat ini perlu dibuat terutamanya jika

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kerja yang bakal dijalankan adalah melibatkan loji rawatan air. Apabila kontrak telah diumumkan SAMB akan menyatakan secara terperinci bagaimana aspek keselamatan perlu diuruskan

Sebelum sesuatu kerja boleh dijalankan, SAMB akan mengadakan pertemuan dengan pengurusan kontraktor untuk mengendalikan sesi perbincangan. Di antara perkara yang perlu diberi penekanan adalah:

- a) Keperluan keselamatan di tempat kerja termasuk menyediakan dokumen panduan keselamatan.
- b) Perincian mengenai tanggungjawab keselamatan kontraktor.
- c) Sebarang jenis bahaya yang mungkin terdapat di tempat kerja terutamanya di loji rawatan air (bilik klorin, bilik kimia).
- d) Keperluan latihan termasuk sesi orientasi/induksi.
- e) Program audit/latihan keselamatan dan kesihatan.

2.0 <u>PERANAN DAN TANGGUNGJAWAB KONTRAKTOR DARI SEGI KESELAMATAN DAN</u> KESIHATAN PEKERJAAN UNTUK KERJA-KERJA SAMB

Sebelum sebarang kontrak kerja ditawarkan kepada mana-mana kontraktor SAMB boleh meminta setiap syarikat menyediakan dokumen program keselamatan. Jenis program adalah bergantung kepada keperluan keselamatan sesuatu kerja. Senarai di bawah adalah merupakan di antara tanggungjawab kontraktor semasa menjalankan kerja di premis SAMB:

- 2.1 Kontraktor dikehendaki mematuhi kepada Akta Keselamatan & Kesihatan Pekerjaan 1994.
- 2.2 Kontraktor dikehendaki mematuhi kepada Akta Kilang dan Jentera 1967.
- 2.3 Kontraktor dikehendaki mematuhi kepada Akta Kualti Alam Sekeliling 1974.
- 2.4 Kontraktor dikehendaki mematuhi kepada mana-mana kehendak Badan Berkanun berkaitan dengan aktiviti kerja.
- 2.5 Kontraktor dikehendaki mengemukakan Polisi Keselamatan & Kesihatan Pekerjaan syarikat mereka.
- 2.6 Kontraktor dikehendaki mengemukakan Carta Organisasi Tapak Kerja bagi syarikat mereka.
- 2.7 Kontraktor dikehendaki mengemukakan Carta Organisasi syarikat mereka.
- 2.8 Semua dokumen keselamatan mestilah mempunyai maklumat bertulis mengenai bahaya jenis bahan kimia yang digunakan seperti MSDS dan setiap bekas berisi bahan kimia mestilah dilabelkan.

- 2.9 Kontraktor mestilah membekalkan dokumen tentang maklumat keselamatan / SOP / Standard bekal / pasang / kendali / stor / lupus kepada semua anggota SAMB yang berkaitan dengan pembekalan/pemasangan/pengendalian jentera yang meliputi tanggungjawab keselamatan pekerja dan majikan, prosedur keselamatan, tanda amaran, simbol keselamatan dsb.
- 2.10 Semua prosidur penguatkuasaan peraturan keselamatan mestilah menyatakan dengan jelas tindakan disiplin yang akan diambil ke atas sesiapa yang melanggar peraturan keselamatan.

3.0 PERATURAN KESELAMATAN UMUM UNTUK KONTRAKTOR/PEMBEKAL

Setiap Kontraktor/Pembekal yang berurusan dengan SAMB mestilah mematuhi semua peraturan umum yang berkaitan dengan kerja mereka

- a) Kontraktor dikehendaki mematuhi kepada Akta Keselamatan & Kesihatan Pekerjaan 1994.
- b) Kontraktor dikehendaki mematuhi kepada Akta Kilang dan Jentera 1967.
- c) Kontraktor dikehendaki mematuhi kepada Akta Kualiti Alam Sekeliling 1974.
- d) Kontraktor dikehendaki mematuhi kepada mana-mana kehendak Badan Berkanun berkaitan dengan aktiviti kerja.
- e) Keperluan minima untuk pakaian adalah kasut, seluar panjang dan baju-T.
- f) Merokok di mana-mana premis SAMB adalah tidak dibenarkan sama sekali kecuali di kawasan yang dibenarkan merokok.
- g) Kenderaan milik kontraktor/ pembekal hanya boleh diletakkan di kawasan yang dibenarkan sahaja.
- h) Semua kenderaan yang memasuki kawasan SAMB mestilah mematuhi had laju maksima yang dibenarkan iaitu 15 km/j.
 - Setiap peralatan, mesin dan sebagainya yang digunakan mestilah berada dalam keadaan baik dan disenggarakan.
- i) Sebarang jenis kemalangan samaada mengakibatkan kecederaan atau tidak mesti dilaporkan kepada SAMB.
- j) Minuman beralkohol, senjata, dadah atau bahan letupan tidak dibenarkan sama sekali dibawa masuk ke dalam kawasan SAMB.
- k) Makan dan minum hanya dibenarkan di kawasan yang dikhaskan sahaja seperti di kantin.
- I) Kasut keselamatan mestilah sentiasa dipakai sepanjang berada di premis SAMB.

- m) Keadaan tempat kerja mestilah bersih dan kemas. Pihak kontraktor/Pembekal adalah bertanggungjawab untuk membersihkan semua bahan buangan dan sampah hasil dari kerja-kerja mereka. Bahan buangan dan sampah mestilah dibuang setiap hari selepas habis waktu kerja.
- n) Setiap pekerja kontraktor/pembekal yang memasuki premis SAMB mestilah melaporkan diri di pondok pengawal atau kepada staf SAMB yang bertugas.
- o) Setiap pekerja kontraktor/pembekal mestilah melapor diri sekali lagi apabila keluar dari premis SAMB dan keluar melalui pintu masuk utama.
- p) Pekerja kontraktor/pembekal tidak dibenarkan mengubah atau menggunakan sebarang peralatan kepunyaan SAMB kecuali setelah mendapat kebenaran.
- q) Setiap peralatan atau mesin yang dibawa masuk ke premis SAMB mestilah berada dalam keadaan selamat dan pekerja yang terlatih dan mempunyai kemahiran sahaja dibenarkan mengendalikan peralatan atau mesin tersebut.
- r) Adalah menjadi tanggungjawab mutlak kontraktor/pembekal untuk memastikan semua alat perlindungan diri/peralatan keselamatan dibekalkan, diperiksa dan disenggara dan pekerja diberi latihan mengenai cara pemakaian/penggunaan yang betul.
- s) Setiap peralatan elektrik yang digunakan mestilah mempunyai tanda kelulusan dari SIRIM dan semua pepasangan dan sambungan mestilah berada dalam keadaan baik.
- t) Apa-apa bahan kimia merbahaya yang dibawa masuk ke premis SAMB mestilah dimaklumkan terlebih dahulu dan kendalian bahan kimia tersebut mestilah mengikut peraturan yang telah ditetapkan.
- u) Semua pekerja kontraktor/pembekal mestilah mematuhi semua peraturan keselamatan SAMB pada sepanjang masa mereka berada dalam premis SAMB.

4.0 PERANAN DAN TANGGUNGJAWAB KONTRAKTOR (PEMBINAAN/ PENYELENGGARAAN)

- 4.1 Kontraktor pembinaan merangkumi kontraktor yang melaksanakan kerja-kerja:
 - a) Kerja-kerja paip
 - b) Kerja-kerja pembinaan
- 4.2 Kontraktor penyelenggaraan merangkumi kontraktor yang melaksanakan kerjakerja:
 - a) Kerja-kerja paip
 - b) Kerja-kerja pembersihan

- c) Kerja-Kerja perobohan
- d) Kerja-kerja pemasangan
- e) Kerja-kerja menservis/kalibrasi
- f) Kerja-kerja kawalan vektor
- g) Kerja-kerja testing/commissioning
- h) Kerja-kerja Pengambilan/Pensampelan di tapak
- i) Kerja-kerja M&E
- 4.3 Pekerja kontraktor perlu mendapatkan permit yang mengesahkan kemahiran dan pengetahuan mereka dalam mengendalikan kerja yang merbahaya.
- 4.4 Kontraktor dikehendaki mengemukakan Carta Organisasi Tapak Kerja bagi syarikat mereka.
- 4.5 Kontraktor dikehendaki mengemukakan Carta Organisasi syarikat mereka.
- 4.6 Kontraktor dikehendaki mengemukakan *Prosedur Kerja Selamat (SOP), Job Safe Analysis (JSA)* semasa pembelian tender manakala *Method Statement (MS)* semasa kerja-kerja tersebut dilaksanakan bagi aktiviti kerja seperti yang tersenarai di bawah ke Jabatan Keselamatan, Kesihatan & Alam Sekitar SAMB sebelum melaksanakan apa-apa aktiviti kerja berkenaan di tapak;
 - a) Kerja-kerja melibatkan trafik SOP, JSA, MS
 - b) Kerja-kerja pemotongan jalan (road cutting) SOP, JSA, MS
 - c) Kerja-kerja pengorekan tanah (excavation/trenching) SOP, JSA, MS
 - d) Kerja-kerja mengangkat & menyusun (lifting) SOP, JSA, MS
 - e) Horizontal Direct Drilling (HDD) SOP, JSA, MS
 - f) Pipe jacking SOP, JSA, MS
 - g) Kerja-kerja panas (hot work) SOP, JSA, MS
 - h) Kerja-kerja yang memerlukan koordinasi dengan badan, agensi lain (other services) **SOP**
 - i) Pemberhentian kerja Semua prosedur penguatkuasaan peraturan keselamatan mestilah menyatakan dengan jelas tindakan disiplin yang akan diambil ke atas sesiapa yang melanggar peraturan keselamatan -SOP
 - j) Kerja-kerja testing & commissioning SOP, JSA, MS

- k) Pelaporan Kemalangan, Kejadian Merbahaya, Keracunan Pekerjaan dan Penyakit Pekerjaan **SOP**
- Bekerja di ruang terkurung seperti di dalam tangki, chamber, lubang korekan, paip dan di dalam sebarang ruang tertutup atau separa tertutup - SOP, JSA, MS
- m) Kerja-kerja di tempat tinggi SOP, JSA, MS
- n) Kerja-kerja di kawasan berair samaada di atas atau di dalam air **SOP, JSA, MS**
- o) Kerja-kerja elektrikal SOP, JSA, MS
- p) Kerja-kerja pembekalan, penggunaan atau pengendalian, penanganan, penyimpanan dan pengangkutan apa-apa bahan kimia (sertakan juga MSDS) - SOP, JSA, MS

serta mematuhi apa-apa arahan keselamatan dan kesihatan pekerjaan yang dikeluarkan oleh pihak SAMB dari masa ke semasa sehingga tamat projek.

- 4.7 Kelulusan untuk memulakan kerja tertakluk kepada kelulusan prosedur tersebut.
- 4.8 Bagi kerja-kerja melibatkan trafik, penyusunan papan tanda keselamatan dan penjaga bendera hendaklah mematuhi **Arahan Teknik Jalan 2C/85** yang dikeluarkan oleh **JKR** mulai tahun 2012 (*Interim Guide*) serta kontraktor perlu mengemukakan lukisan susunan papan tanda tersebut kepada Jabatan Keselamatan SAMB sebelum kerja-kerja dimulakan.
- 4.9 Kontraktor juga wajib mengemukakan Plan Pengurusan Trafik (TMP) dan diuruskan oleh seorang Pegawai Pengurusan Trafik (TMO) yang kompeten (dianjurkan oleh CIDB) sebelum menjalankan apa-apa aktiviti kerja.
- 4.10 TMO perlu menghantar laporan bulanan TMP kepada SAMB sebelum **5hb. setiap** bulan.
- 4.11 Kontraktor perlu menyediakan poster serta papan tanda keselamatan dan kesihatan yang bersesuaian di kawasan kerja. (Cth: papan tanda amaran untuk kerja-kerja di ruang terkurung, kerja-kerja pembersihan, kerja-kerja elektrik (*lock-out & tag-out*) kerja-kerja perobohan dsb.)
- 4.12 Kontraktor perlu menyediakan seorang Pegawai/Penyelia Keselamatan & Kesihatan Pekerjaan yang kompeten & berdaftar dengan JKKP sebagaimana kehendak AKKP 1994.
- 4.13 Kontraktor yang melaksanakan aktiviti kerja di ruang terkurung perlu memastikan setiap pekerjanya telah menghadiri kursus *Authorised Entrant & Standby Person (AESP)* yang dianjurkan oleh NIOSH dan telah lulus ujian sebelum memulakan kerja-kerja di ruang terkurung tersebut.

- 4.14 Kontraktor yang melaksanakan aktiviti kerja di ruang terkurung perlu memastikan setiap pekerjanya telah menghadiri kursus *Authorised Gas Tester & Entry Supervisor (AGT/ES)* yang dianjurkan oleh NIOSH dan telah lulus ujian sebelum memulakan kerja-kerja di ruang terkurung tersebut.
- 4.15 Semua pekerja yang memasuki tapak kerja perlu menghadiri Kursus Induksi Keselamatan dan Kesihatan Untuk Personal Binaan yang dianjurkan oleh pihak CIDB serta memiliki Kad Hijau CIDB yang masih sah dan belum tamat tempoh sebelum memasuki tapak bina.
- 4.16 Kontraktor dikehendaki mengemukakan senarai semua pekerja dan kompetensi pekerja sebelum aktivti kerja dilaksanakan.
- 4.17 Kontraktor dikehendaki mengemukakan senarai jentera dan sijil-sijil perakuan jentera tersebut (Cth: PMA, PMT dsb.)
- 4.18 Pihak kontraktor perlu menyediakan suatu Pelan Tindakan Kecemasan & perlu sentiasa menyelenggara semua peralatan kecemasan yang diperlukan.
- 4.19 Bagi kontrak kerja yang melebihi tempoh kerja 6 bulan, Kontraktor perlu melaksanakan Mesyuarat Keselamatan & Kesihatan sebulan sekali.
- 4.20 PPE (Peralatan Keselamatan Diri) yang wajib dipakai ketika bekerja;
 - Topi Keselamatan (Safety Helmet)
 - Kasut Keselamatan (Safety Shoes)
 - Vest Keselamatan (*Safety Vest*) untuk kerja-kerja melibatkan trafik
 - Lain-lain peralatan sekiranya perlu (Cth. goggle, glove, mask, dll.).
- 4.21 Kontraktor perlu memastikan kemudahan/persediaan ketika kecemasan diadakan seperti peti kecemasan (First Aid Box), ahli pertolongan cemas (First Aider) sebelum melaksanakan apa-apa aktiviti kerja.
- 4.22 Kontraktor juga perlu menyediakan sistem pemadaman api mudah alih yang mencukupi dan bersesuaian sebelum melaksanakan apa-apa aktiviti kerja panas (Cth. kimpalan dll.).
- 4.23 Kontraktor perlu memastikan keselamatan orang awam terjamin dari apa-apa hazad kerja.
- 4.24 Kontrator perlu memastikan semua pekerja asing mempunyai permit kerja yang sah dan belum tamat tempoh.
- 4.25 Rekod-rekod aktiviti keselamatan dan kesihatan hendaklah sentiasa berada di tapak dan dikemaskini dari masa ke semasa seperti;
 - Rekod taklimat keselamatan dan kesihatan
 - Rekod auditan dan pemeriksaan (inspection) keselamatan.
 - Rekod latihan (training)/drill
 - Minit mesyuarat
 - Lain-lain dokumen yang berkaitan.

- 4.26 Bagi kerja-kerja yang mempunyai tempoh kerja melebihi 6 bulan, Laporan Bulanan Keselamatan dan Kesihatan Pekerjaan perlulah dihantar oleh kontraktor ke Jabatan Keselamatan, Kesihatan & Alam Sekitar SAMB pada atau sebelum **5hb. setiap bulan** yang mengandungi;
 - Maklumat umum berkaitan dengan aktiviti/ projek
 - Statistik kemalangan
 - Senarai aktiviti keselamatan dan kesihatan pekerjaan berserta bukti-bukti bercetak.

Format Laporan Bulanan Keselamatan dan Kesihatan Pekerjaan hendaklah dirujuk ke Jabatan Keselamatan, Kesihatan dan Alam Sekitar SAMB. Mesyuarat mengenai hal keselamatan kerap diadakan di antara SAMB dan kontraktor.

- 4.27 Pihak SAMB boleh mengeluarkan Arahan Pemberhentikan Kerja serta-merta sekiranya pihak kontraktor gagal mematuhi apa-apa kehendak keselamatan dan kesihatan yang sedia ada atau aktiviti-aktiviti yang dilakukan telah dikenalpasti sebagai tidak selamat atau mempunyai ciri-ciri yang boleh menyebabkan kemalangan berlaku samaada kepada pekerjanya atau kepada orang awam.
- 4.28 Aktiviti-aktiviti kerja di waktu malam hendaklah disediakan dengan peralatan pencahayaan dan komunikasi yang secukupnya, seperti;
 - Lampu kawasan (area lighting)
 - Lampu kerja (work lighting)
 - Papan tanda lalulintas yang berkesan pada waktu malam dilengkapi dengan lampu amaran (*blinker light*).
 - Flagman perlu menggunakan baton light untuk mengawal lalu lintas.
 - Tali berpemantul cahaya (*string delineator*), kon berpemantul, penghadang jalan (*road barrier*) perlu disediakan untuk menentukan sempadan kawasan kerja dan tali berpemantul cahaya tersebut perlu diikat di antara satu penghadang jalan ke penghadang jalan yang lain.
 - Walkie-talkie perlu disediakan sebagai mod komunikasi untuk mengawal lalu lintas.
- 4.29 Kontraktor dikehendaki memastikan kawasan kerja selamat kepada pekerjanya dan orang awam sebelum meninggalkan kawasan tersebut.
- 4.30 Peranan serta tanggungjawab Pegawai/Penyelia Keselamatan & Kesihatan perlulah dirujuk pada Akta Keselamatan dan Kesihatan Pekerjaan 1994 serta Akta Kilang dan Jentera 1967.
- 4.31 Tiada sebarang pembakaran terbuka dibenarkan.
- 4.32 Kontraktor mestilah membekalkan dokumen tentang maklumat keselamatan / SOP / Standard bekal / pasang / kendeli / stor / lupus kepada semua anggota SAMB yang berkaitan dengan pembekalan / pemasangan / pengendalian jentera yang meliputi tanggungjawab keselamatan pekerja dan majikan, prosedur keselamatan, tanda amaran, simbol keselamatan dsb.
- 4.33 Kontraktor dikehendaki melatih anggota SAMB yang berkenaan tentang caracara mengoperasi / menyimpan / menangani kecemasan / melupus peralatan / jentera / bahan yang baru dipasang.

- 4.34 Bagi kontraktor yang membekal dan memasang hendaklah mematuhi Akta Keselamatan dan Kesihatan Pekerjaan 1994 (Akta 514):
 - 1- Adalah menjadi kewajipan seseorang yang merekabentuk, mengilang, mengimport atau membekalkan apa-apa loji bagi kegunaan semasa bekerja—
 - untuk memastikan, setakat yang praktik, bahawa loji itu direkabentuk dan dibina sebegitu rupa supaya selamat dan tanpa risiko kepada kesihatan apabila digunakan dengan sepatutnya;
 - b) untuk menjalankan atau mengaturkan supaya dijalankan apa-apa ujian dan pemeriksaan yang perlu bagi pelaksanaan kewajipan yang dikenakan ke atasnya oleh perenggan (a); dan
 - c) untuk mengambil apa-apa langkah yang perlu bagi menjamin bahawa akan boleh didapati berkaitan dengan penggunaan loji itu semasa bekerja maklumat memadai mengenai kegunaan yang baginya loji itu direkabentuk dan telah diuji, dan mengenai apa-apa keadaan yang perlu untuk memastikan bahawa, apabila digunakan begitu, loji itu selamat dan tanpa risiko kepada kesihatan.
 - 2- Adalah menjadi kewajipan seseorang yang mengusahakan rekabentuk atau pengilangan apa-apa loji bagi kegunaan semasa bekerja untuk menjalankan atau mengaturkan supaya dijalankan apa-apa penyelidikan yang perlu dengan tujuan agar ditemui dan, setakat yang praktik, dihapuskan atau dikurangkan apa-apa risiko terhadap keselamatan atau kesihatan yang mungkin ditimbulkan oleh rekabentuk atau loji itu.
 - 3- Adalah menjadi kewajipan seseorang yang membina atau memasang apaapa loji bagi kegunaan orang-orang semasa bekerja untuk memastikan, setakat yang praktik, bahawa tiada apa-apa mengenai cara loji itu dibina atau dipasang menjadikannya tidak selamat atau suatu risiko kepada kesihatan apabila digunakan dengan sepatutnya.
- 4.35 Mana-mana kontraktor yang membawa masuk bahan kimia adalah dipertanggungjawabkan terhadap tumpahan/kebocoran yang berlaku.

5.0 <u>PERANAN DAN TANGGUNGJAWAB PEMBEKAL/JURURUNDING (CONSULTANT) & PEMBEKAL BAHAN KIMIA</u>

- 5.1 Pembekal bahan kimia dikehendaki memastikan bahawa setiap bahan kimia yang dibekalkan telah dilabel, dikelaskan dan dibungkus mengikut kehendak Peraturan CPL 1997, Akta Keselamatan & Kesihatan Pekerjaan 1994.
- 5.2 Pembekal bahan kimia dikehendaki mengemukakan Prosedur Kerja Selamat, *Job Safe Analysis* & *Method Statement* ke Jabatan Keselamatan, Kesihatan & Alam Sekitar SAMB sebelum melaksanakan apa-apa aktiviti kerja berkenaan di tapak serta kerja-kerja pembekalan, penggunaan atau pengendalian, penanganan, penyimpanan dan pengangkutan apa-apa bahan kimia (sertakan juga MSDS).

- 5.3 Adalah menjadi kewajipan seseorang yang merumuskan, mengilang, mengimport atau membekalkan apa-apa bahan bagi kegunaan semasa bekerja:-
 - (a) untuk memastikan, setakat yang praktik, bahawa bahan itu selamat dan tanpa risiko terhadap kesihatan apabila digunakan dengan sepatutnya;
 - (b) untuk menjalankan atau mengaturkan supaya dijalankan apa-apa ujian dan pemeriksaan yang perlu bagi pelaksanaan kewajipan yang dikenakan ke atasnya oleh perenggan (a); dan
 - (c) untuk mengambil apa-apa langkah yang perlu untuk memastikan bahawa akan boleh didapati berkaitan dengan penggunaan bahan itu semasa bekerja maklumat yang memadai mengenai hasil apa-apa ujian yang relevan yang telah dijalankan ke atas atau berkaitan dengan bahan dan mengenai apa-apa keadaan yang perlu untuk memastikan bahawa bahan itu selamat dan tanpa risiko kepada kesihatan apabila digunakan dengan sepatutnya.
- 5.4 Pembekal bahan kimia dikehendaki melatih anggota SAMB yang berkenaan tentang cara-cara mengoperasi/menyimpan/menangani kecemasan/melupus peralatan/jentera/bahan yang baru dipasang.
- 5.5 Pembekal bahan kimia yang membekalkan bahan kimia yang dikategorikan sebagai bahan yang tersenarai di dalam Peraturan CIMAH perlu mengadakan program auditan bersam-sama anggota SAMB yang memantau pengoperasian bahan kimia tersebut.
- 5.6 Pembekal bahan kimia juga dikehendaki bertanggungjawab terhadap tumpahan ketika membekalkan bahan kimia dan memyediakan peralatan mengawal tumpahan/kebocoran tersebut.

6.0 <u>PERANAN DAN TANGGUNGJAWAB PEMBEKAL/JURURUNDING (CONSULTANT)</u> PERALATAN PERKHIDMATAN TEKNIKAL

- 6.1 Pembekal/Jururunding (consultant) Peralatan Perkhidmatan Teknikal perlu membekalkan maklumat/latihan/manual operasi peralatan dsb.
- 6.2 Pembekal/Jururunding (consultant) Peralatan Perkhidmatan Teknikal perlu membekalkan test report yang berkenaan dengan setiap pengujian atau perkhidmatan yang dijalankan.
- 6.3 Pembekal/Jururunding (consultant) Peralatan Perkhidmatan Teknikal perlu menghantar laporan pemoniteran/teknikal yang dilaksanakan mengikut perjanjian yang terkandung dalam terma dan syarat perkhidmatan (deliverable).
- 6.4 Pembekal/Jururunding (consultant) Peralatan Perkhidmatan Teknikal perlu menjalankan sesi taklimat mengenai laporan pemoniteran/teknikal yang dilaksanakan untuk wakil Jabatan SAMB yang berkenaan.

- 6.5 Setiap laporan teknikal yang diserahkan kepada SAMB perlu mendapatkan tandatangan pengesahan daripada SO yang berkenaan.
- 6.6 Jururunding teknikal yang menyediakan laporan pemoniteran perlu mengiringi anggota SAMB semasa membuat penyerahan dokumen kepada pihak Badan Berkanun. Cth: Laporan CIMAH, Laporan CHRA, Laporan LEV, Laporan pemoniteran bunyi bising dan lain-lain.

7.0 <u>PERANAN DAN TANGGUNGJAWAB LAIN-LAIN PEMBEKAL/JURURUNDING</u> (CONSULTANT)

- 7.1 Lain–lain Pembekal/Jururunding (*consultant*) perlu mematuhi setiap peraturan yang telah ditetapkan oleh pihak SAMB dari masa ke semasa.
- 7.2 Lain-lain Pembekal/Jururunding (consultant) perlu menghantar laporan pemoniteran/teknikal yang dilaksanakan mengikut perjanjian yang terkandung dalam terma dan syarat perkhidmatan (deliverable).

8.0 PERAKUAN PEMATUHAN AKTA KESELAMATAN DAN KESIHATAN PEKERJAAN 1994

- 8.1 Petender dikehendaki memenuhisi Dokumen Analisis Keselamatan Pekerjaan Kontraktor (JSA)
- 8.2 Semasa kerja dilaksanakan kontraktor diwajibkan untuk mematuhi Akta Keselamatan dan Kesihatan Pekerjaan 1994. Kegagalan pihak kontraktor mematuhi kehendak-kehendak keselamatan membolehkan pihak SAMB mengenakan **DENDA** pada kadar seperti di bawah :-
 - (a) Kesalahan tidak memakai Personal Protection Equipment (PPE) = RM 50.00 per kes
 - (b) Kesalahan tidak mematuhi Sistem Pengurusan Keselamatan Dan Kesihatan Pekerjaan (OHSMS)
 - = RM 200.00 per kes

PERAKUAN PEMATUHAN AKTA KESELAMATAN DAN KESIHATAN PEKERJAAN 1994

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BAHAGIAN G SPESIFIKASI

SAMB Specifications for Pipe Repair:

I. CONTENTS

I	.Contents	2
1	. General Requirements	5
	1.1Scopeof works	5
	1.2 Access to private land	5
	1.3Prospecting.	,5
	1.4 Working in the vicinity of Electrical and telecommunication Equipment	5
	1.5 Disruption and inconvenience to the public or other utilities	6
	1.6 Trees	6
	1.7 Damage to water mains and other water assets	6
	1.8 Identifying public water supply leakage	7
	1.9 Locating a leak or burst	7
	1.10 Isolation of leak or burst	8
	1.11 Works to be kept clear of water	8
	1.12 Valve operations	9
	1.13 Extensive damage	9
	1.14 Site maintenance	9
	1.15 Clearing site on completion	9
2.	Safety and Health	10
	2.1 Personal protective clothing	10
	2.2 Works in roads or footpaths:(Signing, guarding and lighting)	11
	2.3 Safety Training	11
	2.4 General hygiene of employees	11
	2.5 Safety in excavations	11
3.	Excavation	
	3.1 Width of Excavation.	12
	3.2 Depth of Excavation	13
	3.3 Trench finish	14
	3.4 Trench excavations in roads, road shoulders and footpaths	15
	3.5 Road cutters	15
	3.6 Use Of a Road Breaker	15
	3.7 Materials from Excavation	15
	3.8 Supporting Excavation	15

4.	Refilling Trench Excavation	.16
	4.1 Backfilling	16
	4.2 Pipe support	.17
	4.3 Bedding and pipe surround.	.17
	4.4 Backfilling from pipe surround.	18
	4.5 Surface Reinstatement in Road Verges, Fields, etc	.18
	4.6 Road furniture	.19
	4.7 Surface Reinstatement in Roads and Footpaths	19
5.	Pipe works	21
	5.1 Selection of materials.	21
	5.2 Cutting of Pipes	21
	5.3 Handling	21
	5.4 Transportation of PE and UPVC pipes	.23
	5.5 Examination of Pipes and Fittings	.23
	5.6 Pipe ends	.23
6. I	Mild Steel Pipes	.24
	6.1 Repair of protective covering to MS pipes	.24
7. 1	PE and UPVC pipes	24
	7.1 Laying PE and UPVC pipes	.24
	7.2 Repairing PE or UPVC pipes.	.24
8. I	Repairing AC Mains	.25
9. 1	Making Repairs Using Mechanical Couplings and Flanged Adapters	.26
	9.1 Making a joint	.26
	9.2 Use of VA or Universal Joints	
	9.3 Repair of small holes	.26
	9.4 Use of a repair clamp	.26
10.	Valve Chambers and Indicator Posts	.28
	10.1 Construction of Valve Chambers	
	10.2 Step Irons	
	10.3 Installation of Pre-cast Concrete Units	
	10.4 Indicator Posts	29
11.	Crossing Over Streams, Culvert and Watercourses	29
12.	Disinfecting Fittings and Flushing Pipelines	.30
	12.1 Disinfection	
	12.2 Flushing	30

13. Testing	30
14. Painting	31
14.1 Pipe work and Valves in Chamber	31
14.2 Painting of chambers and chamber covers	31
14.3 Painting Pipe work Above Ground	31
15. Communication Pipes	32
15.1 Communication pipes	32
15.2 Galvanised Communication pipe	34
16. Tools, Equipment and Materials	34
16.1 Tools and Equipment to be carried on the vehicle	34
16.2 Materials to be carried on the vehicle	34
16.3 Obtaining materials from Approved Supplier	34
16.4 Disposal of Surplus: Materials	34
17. Reporting	36
18. Compliance With SAMB Requirement	36
Annendix 1: Welding: Mild Steel nines	40

1. GENERAL REQUIREMENTS

1.1 Scope of works

The scope of works covers the repair and replacement of short sections of water mains, communication pipes and associated assets.

If works is carried out using appropriate methods and materials a repaired main should remain in service as long as a newly installed main.

1.2 Access to private land

The Contractor will be responsible for obtaining consent from owner or occupier to work on private land. Assistance may be provided by SAMB if needed.

1.3 Prospecting

To avoid damage to underground services the Contractor shall prospect for the position of buried or otherwise hidden obstructions such as existing services, drains, pipes, cables, culverts, etc. Where there is any doubt concerning the location of other underground services the services providers should be contacted for advice.

A survey should be carried out prior to excavation to identify possible cable runs. The presence of lamp posts, electricity posts etc may provide an indication of the presence of underground cables.

1.4 Working in the vicinity of Electrical and telecommunication Equipment.

Care must be taken when working in the vicinity of electrical equipment. Particular care must be taken to avoid underground and overhead cables when using an excavator.

Fibre optic cables are very expensive to repair, hand digging must be used when working in close proximity to any fibre optic cables and Telecom must be in attendance.

Markers, marking tapes and marking tiles showing the position of buried services must be replaced in the correct position following excavation.

1.5 Disruption and inconvenience to the public or other utilities:

Special care must be taken to reduce inconvenience to customers and the public. In carrying out repairs staff and contractors should take into account the level of disruption which may be caused to residents. Condition of existing assets, drains, culverts, gardens, drives, walls etc should be maintained. Where damage to assets is unavoidable repairs should be made to the satisfaction of the resident.

Care must be taken when working near drains, pipes, culverts, sewers, cables etc to ensure that such services are not damaged. Where work is carried out under or close to existing mains, sewers, culverts or other services they shall be supported or diverted as appropriate and if temporarily displaced or disturbed will be restored to their original state. If they cannot be restored they shall be replaced and made good.

Any damage to the metalled road due to pipe work alongside road verges or shoulders shall be reinstated.

Road signs, lampposts, electricity poles, etc should be supported to ensure they remain stable throughout the work and remain stable following reinstatement. The appropriate authority must be informed of any damage to such assets and must be called in to assist if there is a possibility of an excavation damaging the assets or rendering the unstable.

1.6 Trees

Where it is necessary to cut back or remove trees, the permission must be obtained from the resident, owner or relevant authority prior to commencement of work. Where ever possible trees should be replaced on completion of the work.

1.7 Damage to water mains and other water assets

Damage to any other SAMB assets caused during any aspect of pipe repairs, including damage to chambers, pipe wrapping, chambers, thrust blocks etc must be reported to the SO. The repairs must be carried out by the contractor and inspected by the SO prior to covering.

Thrust blocks removed or damaged during the course of work must be replaced. The design of any replacement thrust block must be agreed by the SO prior to installation.

1.8 Identifying public water supply leakage

A colorimetric test for chlorine can be carried out by the SAMB technicians to determine whether water is natural groundwater, rainfall or from a water main. In the event of a question about the source, contact the technician.

1.9 Locating a leak or burst

It is important to minimise the extent of the excavation in order to reduce inconvenience to the public and to confine the excavation to that needed to carry out the repair.

Where the position of the damage to assets is not clear an investigation should be carried out to determine the location. Clues as to the location of the asset and the location of leaks and bursts should be considered to allow the accurate positioning of the excavation. The position of water on the surface is not always an accurate indication of position of a leak and other clues may be helpful:

- Location of customer communication pipes and direction of those pipes towards the main.
- Earlier repairs may be detected from road patches.
- Location of hydrants, air valve chambers. S bends etc.
- Metal detector.
- Use of a listening stick or ground microphone on the surface.
- Use of a leak noise correlated.
- Drawings.

- Plans and drawings showing location of mains and services.
- Local knowledge from SAMB staff, public, householders etc.
- Using a probe.

Once the probable location is found excavation may be carried out following prospecting for other services and use of a road cutter if a paved surface is to be excavated.

1.10 Isolation of leak or burst

Before excavation begins the main should be isolated. Temporary closure of small-bore PE pipes up to 20mm may be carried out using a specially designed pipe clamp. PE pipes should not be closed using other tools or by folding.

If a main has earlier been shut down it may be necessary to reopen it to locate a leak. The position and direction of flowing water and the noise of water leaking under pressure will often be needed to locate leaks.

1.11 Works to be kept clear of water

Effective repair cannot be carried out in a trench full of water. The flow must be stopped before excavation begins. In the event that a local isolation valve is not functioning or cannot be found, the technician will shut down the flow using a more distant valve. Inoperative valves or those that "let by" must be reported to SAMB SO.

A pump or other means should be used to remove water from the excavation. The asset must be visible and clean to determine the extent of any damage.

The contractor shall at all times keep any excavation clear of water by the use of pumps or other means so that excavation and pipe repair can be carried out effectively and to ensure that pipes are not contaminated.

If appropriate, before commencing work, the contractor shall arrange for the SAMB technician to operate valves to stop the flow of water to the work site.

1.12 Valve operations

Isolation valves will be operated to stop water reaching the work site to enable work to be carried out safely and effectively.

Valves should be closed slowly to avoid hydraulic shock to the system and cause damage, or disturbance to sediment. Similarly valves should be opened slowly to avoid damage and water quality problems.

When closing a valve if water continues to flow the valve should not be over tightened but attempts should be made to clear any obstruction by opening and closing the valve a number of times.

When leaving valves open the valve should be fully opened and then closed a half turn.

1.13 Extensive damage

If there is a longitudinal crack in the pipe an inspection of the pipe to at least one metre on either side of the crack must be carried out to determine the integrity of the pipe. If it appears that the crack is extended beyond the area of the initial investigation the SO should be called to determine if the entire pipe length should be replaced. If AC pipes are found with longitudinal cracks the entire length must be replaced.

1.14 Site maintenance

The contractor must keep the working areas clean and tidy. Spoil and other materials must be kept within the area enclosed by temporary barriers, road cones or fences. Care should be taken to avoid nuisance to residents and the public.

1.15 Clearing site on completion

On completion of the works the contractor shall clear away and remove from site all plant, surplus materials, rubbish and temporary works of every kind and leave the site in a workmanlike condition. All temporary road signs, barriers, cones etc shall be removed and safely stored. The contractor shall ensure that drains and watercourses shall, on completion, be cleared of rubbish and materials.

2. SAFETY AND HEALTH

2.1 Personal protective clothing

Reflective jackets will be worn by all personnel when working on the road, footpath or road verges.

Gloves and goggles of an approved type will be worn when disinfecting fittings.

Goggles of an approved type, gloves and a dust mask will be worn when pipe cutting using a disc cutter.

When cutting asbestos cement pipes the pipe must be kept wet to avoid dust. Approved head protection will be worn by all personnel when working with cranes, excavators or in other situations where damage to the head may occur. Safety shoes or boots must be worn.

Equipment must be maintained in a safe condition.

Mechanical breakers must be well maintained and retain all original safety features to ensure no immediate or long-term injury to workers. In particular safety measures to minimise injury to workers through noise or vibration must be provided.

2.2 Works in roads or footpaths: (Signing, guarding and lighting)

Where work is carried out in or adjacent to roads, footpaths or verges the contractor will provide temporary arrangements to divert traffic and to protect the public. The contractor will provide all apparatus and men required for the adequate traffic control, lighting, signing, guarding and watching. Workers must remain within he coned or barrier area. See specifications for details of signage and traffic control.

2.3 Safety Training

All contractors' supervisors and team leaders must have received training form SAMB instructors in safety and health related to roadwork and pipe repairs. The contractors' supervisor/team leader who will carry identification card showing attendance at the safety and health course must be in attendance during the course of all works and will be responsible for maintaining safety.

2.4 General hygiene of employees:

Before commencing work the contractor must ensure that all employees are instructed in the necessity for prevention of pollution. The contractor will immediately dismiss and remove from site any employee or representative of the contractor who has polluted or fouled the site or any water supply installation and shall take appropriate remedial measures to prevent a repetition of the occurrence and to disinfect the area.

2.5 Safety in excavations

In order to protect workers and assets, contractor will take special precautions, including continuous support of both sides and the end of the excavation as necessary to ensure there is no collapse of the trench sides and no settlement or damage of the adjacent road, road foundation or other structures. Contractors will provide suitable access and aggress to trenches. The contractor should take into account soil stability and whether conditions when deciding upon excavation support. As a minimum requirement the contractor must comply with existing legislation and industry good practice.

As an alternative to trench support trenches may be "battered back" to a slope which will prevent collapse.

3. EXCAVATION

When excavating, care must be taken to avoid damage to other services, the contractor should consult other underground service providers where necessary to prevent damage.

Spoil and other materials should be kept within the area bounded by cones, barriers or fences.

The invert of trenches should be flat and level, where necessary a drainage/pumping sump should be added to the trench to facilitate removal of water.

Generally pipes will be installed in open trenches. Should the contractor with to use directional drilling or other methods agreement must be sought from SAMB Technical Committee.

3.1 Width of Excavation

Trench excavation shall be carried out by such methods and to such dimensions and depths to allow the proper repair or installation and full effective reinstatement to be carried out.

The excavation shall be sufficient to allow satisfactory repair. In general repairs to pipes will not alter the position of the original pipe.

Communication pipes must be installed (including replacement of existing communication pipes) in excavations at least 300mm wide. Should the contractor wish to use a narrower trench, agreement must be sought form the SO. The contractor must demonstrate to the SO that an alternative width can be excavated, the pipe work completed and the excavation backfilled and reinstated to the required standard.

3.2 Depth of Excavation

This information is provided for guidance, it is recognised that existing and repaired mains may not confirm to these standards.

Communication pipes shall be repaired and left at the existing depth. If the full length of the communication pipe should be replaced it will be laid at a depth of 450 mm under a metalled surface or to a depth of 300 mm elsewhere.

Where a repaired communication pipe is less than 300mm below any surface the contractor must inform the SAMB SO who will report the matter on JMS so that then pipe may be replaced to the standard specification within three months.

As a guide the following standards are applied to new and replacement works.

3.2.1 Trench depth in roads: -

- a) Pipe diameter below 1000mm minimum pipe cover of 1200mm
- b) Pipe diameter above 1000mm minimum pipe cover 1200mm
- c) Communication pipes up to 63mm minimum depth of cover 450mm

3.2.2 Trench depth in other places:-

- a) Pipe diameter below 1000mm minimum pipe cover of 1000mm
- b) Pipe diameter above 1000mm minimum pipe cover 1200mm
- c) Communication pipes up to 63mm, 300mm minimum depth of cover

In all cases a pipe must have a minimum cover of 150mm thick compacted sand, before coarse material is added. The final level up to base course will be a coarse material.

As can be seen from the above, communication pipes must be laid in trenches and have at least 300mm cover. The width must be 300mm unless a satisfactory alternative is agreed with the SO, which allows effective installation of the pipe and reinstatement of the excavated area. Where complete communication pipes are to be replaced these dimensions must be adhered to.

3.3 Trench finish

The sides of the trench excavation shall be vertical as far as possible and the contractor shall take necessary precautions to ensure that the trench is safe for working.

The bottom of the trench shall be levelled and trimmed to the true level and stones or other protruding or wet material will be removed. Where necessary, to provide a suitable base, the trench will be excavated to below the final level and sand or other suitable soft material will be added and compacted until the true level is reached.

3.4 Trench excavations in roads, road shoulders and footpaths

All trench excavation shall be completed as rapidly as possible. When vehicles enter the work area or when materials are loaded or unloaded impeding of traffic should be kept to a minimum.

3.5 Road cutters

All metalled road surfaces shall be broken out neatly along the trench line using a "diamond disc" road cutter to keep edges straight and vertical. The road cutter must be used to provide neat straight edges whenever the originally cut line is damaged.

3.6 Use of a road breaker

To ensure that there is no damage to the surrounding road and where the metalled road surface is thicker than the depth of road saw cut the contractor must use a "breaker" to fracture the sub layer before its removal by backhoe.

3.7 Materials from Excavation

Excavated materials and other site rubbish must be disposed of to a suitable disposal site.

3.8 Supporting Excavation:

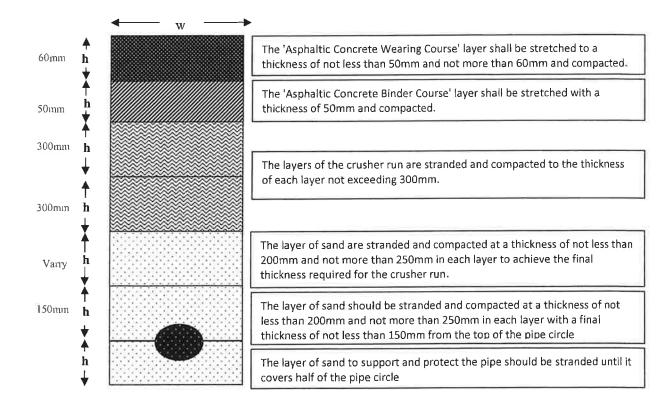
See 2.5 for safety in excavations.

4. REFILLING TRENCH EXCAVATION:

4.1 Backfilling

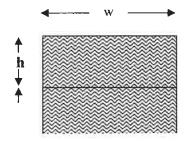
In order to protect the underground assets and to avoid the sinking of completed surfaces, backfilling and compaction must be carried out specifically as follows. Contract drawings provide details of specifications.

Note: In the following diagrams the sand may be replaced suitable excavated material that must be soft and contain no stones or other material, which could damage the pipe or the pipe protection.

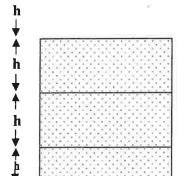


UNDER ROAD AND PAYEMENT BACKFILLING

The number of layers will vary dependent upon depth. The width of trench will vary dependent upon pipe material and dimensions



The layer of soil should be stranded and compacted. The soil shall comply with the criteria set out in Standard Specification JKR / SPJ / 2013 sub - section 2.2



The layer of sand should be stranded and compacted at a thickness of not less than 200mm and not more than 250mm in each layer with a final thickness of not less than 150mm from the top of the pipe circle

The layer of sand to support and protect the pipe should be stranded until it covers half of the pipe circle

UNDER ROAD SHOULDER BACKFILLING

4.2 Pipe support

The pipe must not be supported on any hard material and must only be supported by soft sand or earth. Any pipe supports used to hold the pipe in place for the purposes of repair must be removed before bedding layer is added.

4.3 Bedding and pipe surround

To protect and support the pipe suitable material is placed around the pipe and is compacted.

Excavated material that is soft, free from rubbish or stones of more than 6mm diameter and clods of solid earth may be used as a soft filling material. Otherwise imported materials (usually sand) must be used.

The pipe must be bedded on compacted layer of soft fill material. The space under and around the pipe up to the centre line is then filled and compacted using suitably shaped hand rammers working alternatively on each side of the pipe. Further soft fill material is added until a layer 150mm above the pipe is reached. The material is compacted using a suitable approved means.

Backfill material must be free running and relatively dry. Wet material must not be used for backfilling and must be removed from site to an approved disposal site.

Further soft fill material is added until a level of at least 300mm above the pipe has been reached. This layer too must be thoroughly compacted using an approved method.

4.4 Backfilling from pipe surrounds

The remainder of the refilling may consist of suitable coarse material that is free from large clods and of appropriate moisture content to allow suitable compaction. If suitable material is not available on site suitable imported material such as sand should be used.

The remaining backfill is to be carried out in 150mm layers, each compacted with the mechanical compactor until the level at which surface reinstatement is to commence.

In all cases the final 150mm up to the bituminous base course must be of compacted crushed stone.

4.5 Surface Reinstatement in Road Verges, Fields, etc

The Contractor shall restore all surfaces in a condition no inferior to that, which existed prior to commencement of works. Stones and debris must no be visible on the restored area.

Particular care must be taken to restore gardens disturbed by excavations, gardens and road verges outside residential properties.

Any damage to the metalled road due to pipe laying work alongside road verges or shoulders shall be reinstated.

4.6 Road furniture:

Road signs, lampposts, electricity poles, etc should be supported to ensure they remain stable throughout the work and following reinstatement. The appropriate authority must be informed of any damage to such assets and must be called in to where there is a possibility of an excavation damaging the assets or rendering them unstable.

4.7 Surface Reinstatement in Roads and Footpaths

Note: By employing suitable methods the contractor must be able to reinstate an excavation that does not sink. Any subsequent depression in the road surface, within the area of the excavation, must be repaired to the satisfaction of the SO at the contractor's expense.

4.7.1 Temporary Reinstatement of Roads and Pathways:-

Temporary or permanent reinstatement using a dense bituminous mix must be carried out before the road or pathway may be to be opened to traffic.

A compacted layer of coarse material (crusher run) is not suitable temporary reinstatement. Only compacted coarse bituminous material may be used as temporary reinstatement. A single layer of cold mix material 60mm thick may be used as a temporary reinstatement but it must be compacted and finished as for a permanent reinstatement.

Should it not be possible to fully reinstate the road, the site must not be reopened to traffic. Barriers, lights and appropriate signs must protect the excavation until a temporary or permanent bituminous reinstatement can be completed. The contractor is responsible to ensure that temporary road signs, barriers, cones etc remain in place until reinstatement is complete.

4.7.2 Permanent reinstatement:-

Any damaged road or excavated edges not vertical and sharp cut with a road cutter will be cut back with a road cutter and excavated and backfilled with suitable material and compacted using an approved method so that a suitable road base is produced. The road or footpath will be reinstated to a similar thickness of base course and wearing course as the surrounding surface. The backfill crusher run and base course surfaces shall receive a layer of tack coat before the subsequent layers. All fill materials shall be compacted by approved means.

The consolidated surface shall be brought up to the same level of the adjoining road.

The reinstatement shall be inspected within one month after completion and the contractor, at his own expense, shall repair any sinking in the road surface.

5. PIPEWORKS

5.1 Selection of materials

- a) UPVC pipe should be used to replace short lengths of AC pipe
- b) Full lengths of AC pipes should be replaced with ductile iron Mild steel or UPVC pipe depending upon location
- c) Existing ductile iron pipes should be replaced with ductile iron
- d) MS or DI pipes should be used for road crossings. UPVC should not be used for road crossings
- e) Mild steel pipes with no tapping's should be replaced with welded MS pipes
- f) MS may be connected to ductile iron with suitable mechanical couplings.

 Ductile iron pipes should not be welded
- g) PE pipes should be connected to other materials using a suitable mechanical coupling with a gripper end (Tiger Fit type) for the PE connection

5.2 Cutting of Pipes

Where it is necessary to cut pipes the cutting shall be neatly and accurately performed by experienced workers using pipe cutters appropriate for the type and diameter of the pipe so as to leave the end of the pipe truly normal to the axis of the pipe.

The cut ends of pipes shall be smoothed and bevelled to remove burrs and to ensure proper positioning at the joint without damage to the jointing rings.

After cutting, damage to external coating on steel pipes shall be repaired by applying the original coating material by brush.

Safety guidelines must be followed. AC Pipes must be cut wet to avoid unnecessary dust.

5.3 Handling

Pipes and fittings that are too large to be manually moved may be moved only by wide non-abrasive slings. Wire ropes, chains or hooks shall not be permitted to come in contact with external coatings or internal linings. No pipe shall be moved by rolling or dragging.

On no account shall the pipes or fittings be dropped or let fall onto the ground and under no circumstances shall the pipes or fittings be lifted by means of hooks to the ends of pipes or fittings.

The ends of all pipes and fittings shall be suitably protected against damage during transit. Pipes and fittings shall be suitably supported sot that no damage is caused to the external coating.

If PE or UPVC pipes are handled with mechanical lifting devices, the pipes shall be suitably protected to prevent scoring. Any scoring of PE pipe surface that is more than 10% of the wall thickness shall cause the pipe to be rejected or else the section shall be cut out.

PE pipes shall not be coiled to less than 25 times the outside diameter of the pipes. During coiling and uncoiling care should be taken to maintain the coil diameter to the specified minimum of 25 times the outside diameter to prevent kinking.

5.4 Transportation of PE and UPVC pipes

Careful handling of PE and UPVC pipes is always required. They shall not be dropped or dragged or subjected to rough handling. Care should be taken particularly during loading and unloading operations.

Care shall be taken to avoid positioning pipes and fittings near to exhaust pipes or other heat sources. The pipes and fittings shall not be transported together with sharp materials equipment or vehicle fittings in order to avoid contamination or damage.

Pipes shall NOT be rolled or dropped from transporting vehicles or into trenches.

5.5 Examination of Pipes and Fittings

All pipes and fittings shall be thoroughly brushed, cleaned and carefully examined for cracks and flaws both internally and externally immediately prior to laying. All damage to surface coatings must be repaired before installation.

5.6 Pipe ends

Except when work is actually proceeding, all open ends of pipes and specials in the trench shall be kept closed by means of a fine wire gauge mesh covered wooden stoppers or other approved means, to prevent the entry of dirt, stones and the like. Such stoppers shall allow the entry of water to prevent floatation of empty pipes.

6. MILD STEEL PIPES

6.1 Repair of protective covering to MS pipes

When repairing MS pipes any damage to the protective covering must be repaired to maintain the integrity of the pipeline. Under no circumstances may an MS pipe be backfilled until protective coverings are entirely satisfactory.

The external sheathing of steel pipes and specials shall be made good wherever the steel has been exposed or the thickness of the coating seriously reduced by damage or where the coating does not adhere tightly to the steel. Where the steel has been exposed all rust and dirt shall be removed carefully by wire brushing or otherwise, and when perfectly clean and dry, a coat of approved special quick drying primer applied before external protective material shall be added.

All defects to sheathings/pipe protection shall be made good. The compound used for repairing sheathings shall be compatible with the existing material and shall be approved by SO.

7. PE AND UPVC PIPES

7.1 Laying PE and UPVC pipes

The invert of the trench shall be free from all rocks, boulders, stones or hard materials, which may damage the pipe walls. Before any pipes or specials are lowered into the trench, the pipes and specials are to be rechecked for deep cuts.

When lowering pipe into trenches, care should be taken to avoid scoring of the pipe by contact with the sides and bottom of the trench. Special care is required when passing pipes under/around obstruction or other utilities.

For PE pipe the trench invert shall be bedded with well graded free flowing granular sand that is free from stones or hard particles larger than 6mm diameter. Gradual changes in direction can be accommodated by pipe deflection but the pipe shall not be cold bent to a radius smaller than twenty-five (25) times the outer diameter of the pipe. Under no circumstances shall hot vending in any form be allowed on site. A minimum distance of 300mm from obstruction and other services shall always be maintained. The pipe shall be kept as central as possible within the trench to enable correct side-fill compaction but some snaking to compensate for thermal expansion of the pipe will be allowed.

7.2 Repairing PE or UPVC pipes

When repairing a crack in a PE or UPVC pipe with a pipe clamp a small hole approximately 6-10mm should be drilled in the pipe at each end of the crack to prevent the crack increasing in length.

8. REPAIRING AC MAINS:

When repairing an AC pipe, check with a probe to see if the original connector is a short distance from the damaged area. If it is, replace the pipe back to the original joint.

Old AC mains may suffer from longitudinal cracks. It is difficult to identify the end of such cracks therefore the entire 4m length of AC mains with longitudinal cracks should be replaced.

AC mains with punctures or diagonal or circumferential cracks may be repaired.

When cutting AC pipes the pipe must be kept wet in the area of the cut to reduce dust. Dust masks and goggles must be worn.

9. MAKING REPAIRS USING MECHANICAL COUPLINGS AND FLANGED ADAPERS

9.1 Making a joint

When making flanged joints care shall be taken to see that the sealing rings remain in position undistorted while the bolts are tightened. The ring may be fastened to the bolts with cotton thread, or stuck to the flange with rubber solution. The use of jointing paste will not be permitted. The bolts shall be tightened in regular sequence starting from opposite sides of the bolt circle and then going round in this way until every bolt is tight. Excessive tightening of flanged joints shall be avoided.

Gaskets must be of factory manufacture under no circumstances will gaskets cut on site be allowed.

The exposed metal and welds on flanges on MS pipes which will be subsequently buried in trench and not encased in concrete shall be carefully wrapped with 'Denso' tape or similar material according to manufacturer's recommendation.

Flanged joints shall be made using the materials provided by SAJ. Bolts shall be tightened in opposite pairs as much as possible until joints are absolutely watertight.

Standard mechanical steel coupling joints specified in with rubber rings shall be used for jointing pipes and fittings as required.

Care shall be taken in assembling the joints in order to ensure that they are watertight upon tightening.

9.2 Use of VA or Universal joints

If possible VA/VJC (Dresser) joints should be used, they are robust and generally less expensive than Universal Joints. Care must be taken when using VA or universal couplers to ensure that:

- a) Ends of new and existing pipes are cut square
- b) Pipe ends are free from burrs or sharp edges which could damage seals
- c) Pipe ends are clean, no mud or debris adheres to the pipe or is trapped in the seals
- d) Joints are installed correctly with temporary support for the pipe if necessary
- e) Replacement pipe is cut to the correct length
- f) Bolts are tightened to avoid uneven tightening of the collars. Couplings must be square on the pipes and must be pulled up evenly
- g) Over-tightening should be avoided to prevent damage to bolts and couplings
- h) Repair must be tested with full system pressure before backfilling

9.3 Repair of small holes

For a very small hols, such as a damaged communication pipe tapping it may be possible to effect a repair with a saddle. This should only be attempted if the pipe is sound. The pipe should be first cleaned and washed to remove mud or soil then the area of damage can be determined. If the hole size is 20mm or smaller a repair with a tapping saddle can be carried out.

9.4 Use of a repair clamp

Where the damage is localised such as where there is a small hole in the pipe and the rest of the pipe is sound a pipe clamp may be used to repair the pipe. Care must be taken to ensure that the remaining pipe both inside and outside the area of the clamp is sound and able to support the pressure of the clamp. Pipe clamps are expensive and other methods of repair should be used whenever possible.

10. VALVE CHAMBERS AND INDICATOR POSTS

10.1 Construction of Valve Chambers

Valve chambers shall be constructed in accordance with the details shown on the Drawings.

The Contractor shall obtain from the SO the exact requirements relating to the location and size and construction of each chamber.

Drainage from valve chambers suitable outfalls shall be provided as directed by the SO.

Valve chambers and manholes where necessary shall be constructed of 225mm brickwork set in cement mortar. Alternatively chambers may be constructed from pre-cast concrete sections obtained from SAMB stores.

Unless otherwise approved manholes shall be benched with grade 20 concrete to an average depth of 200mm. The internal sides and bottom of the chambers shall be rendered with cement mortar.

Chambers cover level shall be 100mm above the ground level in grassed verges and flush with the surrounding surface in metalled surfaces and walkways unless otherwise directed by SO.

10.2 Step Irons

Step irons used in chamber shall be bent from 25mm diameter mild steel bars as shown on the specification diagram then hot dipped galvanised.

10.3 Installation of Pre-cast Concrete Units

Pre-cast concrete units shall with SAMB standard.

At all stages and until completion of the work, pre-cast members shall be adequately protected to preserve all permanently exposed surfaces, arises and architectural features. The protection shall not mark or otherwise disfigure the concrete.

All units shall be laid, bedded, jointed and fixed in accordance with the lines, levels and other details shown on the Drawings or instruction from SAMB.

Any pre cast concrete structural member, which is found to be cracked, damaged or otherwise inferior in quality both before and after erection, shall be rejected and replaced by the Contractor.

Following construction the chambers shall be painted as directed by SO.

10.4 Indicator Posts

SAMB or other utility indicator posts removed during the works shall be replaced in their original position. Any damaged indicator posts should be replaced.

11. CROSSING OVER STREAMS, CULVERT AND WATERCOURSES

Typical details of pipe work and support arrangements of over-crossing at streams and rivers are shown on the Drawings. The Drawings shows pipe specials and pipe supports, which are required for each crossing. SAMB staff will provide advice on materials to be used.

Support must be given, where necessary, to avoid sagging of pipes crossing culverts and watercourses.

12. DISINFECTING FITTINGS AND FLUSHING PIPELINES

Following the cleaning and drying of pipe ends and fittings it is necessary to disinfect them and to flush the pipe work to reduce the possibility of waterborne disease and debris entering the water system.

12.1 Disinfection

All pipe fittings and internal and external ends of pipes shall be sprayed with a solution of chlorous (bleach) using a hand held sprayer. To maintain the effectiveness of disinfection chlorous solution must be replaced weekly from the SAJ stores. Goggles and gloves must be worn when disinfecting pipes and fittings.

12.2 Flushing

The system shall be flushed at the nearest downstream hydrant or washout until the water being discharged runs clear. The flushing should begin slowly then gradually increased to full flow. Valves should be opened and closed slowly to avoid shock to systems and disturbance of sediments.

13. TESTING

Prior to backfilling and whilst the entire repair is visible a visual test will be carried out. The water will be turned on the system. Once the technician indicates that full pressure has been resumed a thorough visual inspection will be undertaken. Any indication of a leak will be considered as a failure and remedial action must be taken. Should simple tightening of fittings not remedy the leak the repair must be dismantled reinstalled and re-tested. Removed fittings must be inspected for faulty/damaged seals etc. Only when a successful test has been witnessed and recorded may the excavation be backfilled.

14. PAINTING

14.1 Pipe work and Valves in Chambers

After installation the exposed surfaces of all steel pipe work, valves and fittings in chambers shall be properly cleaned, primed and painted thoroughly with two coasts of approved epoxy paint.

The paint required for these purposes shall follow standard SAMB colour coding Code Number as per Standard Colour Scheme For SAMB Installations.

14.2 Painting of chambers and chamber covers

Valve chambers and chamber covers should be painted as directed by SAMB using paint with colour coding Code Number as per Standard Colour Scheme For SAMB Installations.

14.3 Painting Pipe work Above Ground.

Steel pipe work for installation above ground including stream and river over-crossings shall be cleaned then painted. After installation, damaged areas and welded areas shall be power brush cleaned to bright finish to remove all traces of rust and painted with one coat of rust proofing primer and primed with two coats of epoxy zinc chromate primer and then two coats of epoxy finish coat. Exposed steel pipe will be cleaned to a bright finish, coated with a rust proofing primer and primed with two coats of zinc chromate primer then two coats of an approved epoxy based finish in an approved colour. The current SAJ colour specification will be used.

Particular care will be necessary when painting pipes and fittings, which cross watercourses. The contractor should take appropriate measures to protect the safety of workers engaged in such painting activities. It may be necessary to erect platforms or scaffolding to allow painting to proceed safely.

The current SAMB colour specification must be adhered to.

15. COMMUNICATION PIPES

This section specifically deals with the laying and repair of small diameter communication pipes. For large communication pipes the specifications for pipe installation and repair appear elsewhere in this document apply.

15.1 Communication pipes

- a) Replacement communication pipes in roads must be laid in sand at a depth of least 450mm in trenches at least 300mm wide.
- b) Communication pipes laid elsewhere must be laid in sand in trenches at least 300mm wide and 300mm deep.
- c) A road saw must be used to cut any paved surface.
- d) Particular care must be taken to minimise damage to customer's premises.

- e) Under no circumstances can PE communication pipes be laid on the surface or for the PE to be visible on the surface or when crossing drains, streams, culverts or other watercourses or through gardens, fields etc.
- f) Communication pipes crossing culverts must be sleeved with GI slaving.
- g) When crossing culverts the slaving/communication pipe must not be installed where it may obstruct the flow in the culvert.
- h) Communication pipes across drains and rivers must be supported to avoid sagging and the pipe must be laid in GI Sleeve.
- i) The ends of sleeves must be cut so as to prevent damage to PE pipes at the cut end of the sleeve.
- j) All sleeve ends must be fitted with a special plastic insert to ensure that the cut end of the sleeve does not damage the PR pipe.
- k) PE pipe should exit the sleeve in a way that avoids the pipe being damaged. The ends of the slaving must be anchored in the ground to prevent movement, which could damage the PE pipe.
- For a new installation, PE pipes must be laid in a single length with no intermediate joints between the tapping ferrule and the meter stand connection. For repairs, joints are permissible but care must be taken to ensure that the connector is correctly fitted.
- m) PE communication pipes must not be laid in a position where they can come into contact with hard surfaces, concrete culverts, rock, stone pathways etc.
- n) The sand surrounding the communication pipe is there to absorb the thrust and prevent the pipe form touching obstructions or the sides of the trench.
- o) The minimum ferrule size to be used on any SAMB installation is 20mm.
- p) Communication pipes will be attached to all reticulation pipes with an appropriate saddle for all materials. The correct saddles for the material and the pipe dimensions must be used. SAMB will provide the correct dimension for tapping saddle.
- q) Tapping must be made with a tapping machine for all connections.
- r) If tapping of a bitumen wrapped MS pipe is required the bituminous protective sheath must be stripped back to a clean pipe surface and the connection made with and appropriate saddle. Any pipe surface must then be coated or wrapped with a suitable bituminous material to prevent pipe corrosion.

s) Contractors wishing to use fusion techniques for repair of PE installations must obtain prior approval from the SO.

15.2 Galvanised Communication pipe

If a leak is found in a galvanised communication pipe the stability of the short length on either side of the leak should be assessed. If it is found that the pipe is in poor condition the whole length should be replaced. "Gripper" (universal transition) type connectors can be used to connect galvanised pipe to PE pipe. The depth, width, sleeving and backfill requirements for installation of communication pipes must be followed.

Note: For reticulation main replacement a direct tapping may be made to a ductile iron pipe by a qualified and experienced operator using a pipe-tapping machine.

16. TOOLS, EQUIPMENT AND MATERIALS

Pipes, Mechanical Couplings, Flange Adaptors and other fittings and materials will, wherever possible, be provided by SAMB.

In addition all necessary couplers, joints rings, nuts, bolts and washers, etc. required for completing joints shall be supplied by the SAMB stores. All bolts, nut and washer shall be stainless steel or hot-dip galvanised in accordance with BS 729 unless otherwise directed.

Any additional approved material or fittings may be obtained from an SAMB authorised supplier following the approval of the SO. Queries concerning the authorisation of suppliers should be addressed to the SO.

16.1 Tools and Equipment to be carried on the vehicle

To ensure that work can be carried out effectively and safely certain tools must be carried on the vehicle. The inventory of tools and equipment to be carried can be found in Appendix 3.

16.2 Materials to be carried on the vehicle

To ensure that repairs can be carried out quickly and effectively certain materials should be carried on the vehicle. The materials include repair fittings and pipes for all routine repairs. The team/contractor will be required maintain the vehicle stock and to account for any usage against jobs.

16.3 Obtaining materials from approved suppliers

All repair materials: pipes, fittings, chamber sections, valves etc must be obtained from the list of approved supplier issued by Suruhanjaya Perkhidmatan Air Negara (SPAN). Materials may only be obtained from other sources with the written approval of the SO.

16.4 Disposal of Surplus: Materials

All the disposal/scrap materials obtained from the pipes, fittings and valves replacement activities shall belong to the Contractor for disposal, however the contractor will be charged with the fixed rate of 0.75% from the total value of amount claim under Section C14- REPAIR WORKS only and the amount shall be deducted from the Contractor monthly progress payment as discounted to the contract.

17. REPORTING

Contractors should report the following on job report sheets:

- a) Missing or lost valves.
- b) Areas, which have no isolation, valves
- c) Valves not operating correctly.

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17. REPORTING

Contractors should report the following on job report sheets:

- a) Missing or lost valves.
- b) Areas, which have no isolation, valves
- c) Valves not operating correctly.

(for the next following hours + the actual number of water tankers supplied due to the disruption. (RM350 per tanker)

b) Pipe leaks (with disruption for supply)

- i) Exceeding 18 hours Not Exceeding 30 hours RM 150.00
- ii) Exceeding 30 hours RM20.00/hour (for the next following hours)

c) Pipe leaks (without disruption for supply)

- i) Exceeding 36 hours Not Exceeding 60 hours -RM 100.00
- ii) Exceeding 60 hours RM15.00/hour (for the next following hours)

There are exceptions to the above requirement if supply is not duly restored.

These are if: -

- a) By reason of 'Force Majeure'
- b) By reason of unforeseen circumstances beyond Contractor's control or ability to the proper carrying out of the work.
- c) By reason of directions given by the S.O
- d) By reason of any exceptionally inclement weather preventing the works being carrying out.
- 18.3 Road reinstatement shall be carried out on the same day after pipe repairs, if premix material is unavailable due to public holiday/ weekend, steel plate shall be used as temporary measure. Temporary premix using 'cold mix' will be used subject to S.O approval and instruction.

Contractor is required to comply strictly to JKR Standard or Local Authorities requirements for the reinstatement of works. The failure of the Contractor to meet the JKR standard or local authorities requirements in making good the roads, and any other existing structure, shall give the right to SAMB to impose a PENALTY to the contractor at a sum calculated as below.

a) Under Road & Hardstanding

RM 500.00/ location

b) Under Road Shoulder

RM 300.00/ location

RM 100.00/ location

c) Cleanliness Of Works Place

Although the penalty has been imposed, the works shall need to be rectified and repaired by the contractor at their own cost.

18.4 Guarantee on quality of works:

Contractor shall guarantee the quality of works and any substandard quality of works shall be rectified and repaired by the contractor at their own cost.

18.5 The failure of the Contractor to meet the above requirements shall give the right to SAMB to employ a third party to finish the work and all costs shall be charged to the contractor including 10% on cost charges.

Alternatively, the losses and damages suffered by SAMB shall be charged to the Contractor.

18.6 Contractor is compulsory to comply with the SAMB Occupation Safety And Health Act 1994. The failure of the Contractor to meet the compliance shall give the right to SAMB to impose a **PENALTY** to the contractor at a sum calculated as below.

a) Fail to use any Personal Protection RM 50.00/case Equipment (PPE)

b) Fail to comply Occupation Safety RM 300.00/case And Health Act 1994

18.7 For any reinstatement and installation works the Contractor shall furnish with the photograph of any sequence of work; photo shall be taken before, during and after completion. The photograph will become the evidence for any payment claimed.

18.8 All the works carried out shall be claimed within the period of 3 month after works completed with all the details of claim and supporting documents. Any claim submitted more than 3 months shall not be entertained.

Appendix 1. (Appendix to the Specification of Pipe Repair)

Appendix 1: Welding: Mild Steel pipes.

1.1 Welding Collars

Collars shall be provided for jointing cut pipes or closure pieces by means of internal and external fillet welding. Minimum lengths of collars shall be 250mm. Collars may be provided as single split collars with temporary bolts and lugs. The collar shall be 1.5mm thicker than the equivalent standard straight pipe thickness.

Collars shall make close contacts around the circumferences of both pipes connected and the gap between the ends of a split collar after tightening shall not exceed 3mm.

The overlap on each pipe shall not be less than 7.5mm. Collar joints shall not be required to take any deflection.

1.2 Welding tolerance

The joint engagement tolerance in any position shall not exceed an average of 1.60mm with maximum isolated gaps of 2.00 mm adjacent to the weld seams.

1.3 Welding Equipment

The Contractor shall submit details of the welding procedure, which he proposes to adopt. Details shall include: -

- a) Make, type and gauge of electrodes
- b) Size, shape and number of runs in welded joint
- c) Direction of welding
- d) Current strength

1.4 Welding personnel

The contractor shall only permit capable, experienced welders to carry out welding activities for the company. All welders must hold a certificate from a Nationally recognised institution. All welders must be tested and approved prior to carrying out any welding activities for SAMB.

The Contractor's welders may be required to make test specimens on pipes of same size and thickness as the pipelines normally to be welded. The welding test would be observed by a SAMB assessor.

1.5 Welding method

Where the steel pipes are to be jointed by welding it shall be by means of a circumferential electric arc weld at each joint.

Before placing the pipes together the portion of the sockets and spigots to be welded shall be cleaned to a bright metallic finish, the spigot end shall then be placed in the socket and forced inside so that the spherical surfaces are in contact and that the gap between the pipes at the end of the spigot is nowhere greater than 1.5mm.

Where pipes are to be jointed by a steel split collar, the pipe ends and the collar shall be cleaned to a bright metallic finish. The collar shall then be placed on the ends of the pipes so that the space between the pipe ends shall be about 25mm from the centre line of the collar. The collar shall be clamped tightly onto the pipes using the lugs and welded longitudinally. After completion of the external and internal circumferential welds where appropriate the lugs shall be removed and the longitudinal weld completed.

BAHAGIAN H JADUAL KADAR HARGA



SYARIKAT AIR MELAKA BERHAD

[200501030101 (712238-w)]

JADUAL KADAR HARGA BAGI KERJA-KERJA
PENYELENGGARAAN SISTEM RANGKAIAN PAIP
AIR DAN KERJA-KERJA BERKAITAN DI SYARIKAT
AIR MELAKA BERHAD

TAHUN 2025 - 2026

SYARIKAT AIR MELAKA BERHAD

JADUAL KADAR HARGA BAGI KERJA-KERJA PENYELENGGARAAN SISTEM RANGKAIAN PAIP AIR DAN KERJA-KERJA BERKAITAN DI SYARIKAT AIR MELAKA BERHAD

RINGKASAN JADUAL KADAR HARGA

NO	KETERANGAN	BAHAGIAN	MUKA SURAT
1	GENERAL & PRELIMINARIES	А	A-1/2 - A-2/2
2	REPAIR OF PIPES AND SPECIALS	В	B-1/8 - B-8/8
3	REPAIR OF COMMUNICATION PIPES	С	C-1/7 - C-7/7
4	VALVE REPAIR & REPLACEMENT	D	D-1/6 - D-6/6
5	REPAIR OF CHAMBERS	E	E-1/4 - E-4/4
6	REPLACEMENT OF S-BEND	F	F-1/1
7	ANCILLARY WORKS	G	G-1/5 - G-5/5
8	EXTRA OVERS	Н	H-1/1
9	SCHEDULE OF DAYWORK RATES - LABOUR	J	J-1/1
10	SCHEDULE OF DAYWORK RATES - MACHINERY & TOOLS	К	K-1/1

NOTA: HARGA YANG DITAWARKAN ADALAH TERMASUK SST

SAYA/KAMI YANG BERTANDATANGAN DIBAWAH DENGAN INI BERSETUJU DENGAN JADUAL KADAR HARGA BAGI KONTRAK INI ADALAH SAH DAN EFEKTIF DI SEPANJANG TEMPOH KONTRAK.

(Tandatangan Pemborong)	(Tandatangan Saksi)
Nama :	Nama :
No I/C:	No I/C:
Tarikh:	Tarikh :

Materi atau cop Pemborong:

Item	Descriptions	Unit	SAMB'S RATE (RM)
	SECTION A : GENERAL & PRELIMINARIES		
A1	Cost in providing Bank / Insurance Guarantee for Performance Bond.	Lump Sum	
A2	Cost in providing all related insurances :	Lump Sum	
i. ii.	Insurance of Works (estimated amount of works for one year) Public Liability		
iii.	Workmen Compensation and /or SOCSO (estimated amount of wages for one year)		
А3	Cost for complying with statutory requirement such as Construction Industry Development Board (CIDB) and Suruhanjaya Perkhidmatan Air Negara (Span) and etc insulting paying fees and levies required.	Lump Sum	
Α4	Provide and maintain temporary site office, stores, temporary water supply, temporary electricity and temporary sanitation and subsequent removal upon completion of the Works.	Lump Sum	4 %
A5	Provide competent personnel as Site Agent, Safety Site Supervisor and all necessary assistance for supervision and management of the Works.	Lump Sum	of Work Done
A6	Allow for all safety precautions for the Works, including provision for all necessary safety equipments and apparatus and provide, maintain all plant, equipment, transport, apparatus and manpower required for traffic management and traffic management plan to provide for adequate traffic control including warning signs, signals, barricades, blinking lamps and temporary road diversion and maintenance as required by the Local Authorities and to comply with Health, Safety and Security requirement and Occupational Health & Safety Act (OSHA).	Lump	
	(THE CONTRACTOR IS MANDOTARY TO PROVIDE AT LEAST 1 TONNE LORRY DEDICATED TO CARRY 1 FULL LOAD WITH SAFETY ROAD SIGNS IN ANY TIME WITHIN THE CONTRACT TO FULLFILL THE SPECIFICATION AS REQUIRED BY LOCAL AUTHORITY AS STATED IN THE DRAWING).		

Item	Descriptions	Unit	SAMB'S RATE (RM)
A7	Allow for Mild Steel Plate (1.2m \times 2.4m \times 10mm) for road crossing (temporary works).	Lump Sum	
A8	(temporary works). Allow for proggress coloured photographs with size 4R for every activity of work as specified at "Kehendak-Kehendak Projek" clause 10. The photographs must be taken from same angle of view and to be incoporated with ID No, location of job and date.	Lump Sum	4 % of Work Done

Item	Descriptions	Unit	SAMB'S RATE (RM)
	SECTION B : REPAIR OF PIPES AND SPECIALS		
B1	REPAIR OF PIPES & SPECIALS BY CUTTING OUT OF DAMAGED PORTION AND REPLACING WITH NEW PIPES THROUGH MECHANICAL JOINTING FOR ALL PIPES EXCEPT FOR DUCTILE IRON, CAST IRON & MILD STEEL		
	UNDER ROAD SHOULDER Collect from SAMB's store, transport all pipes and fittings to site, cut out damaged pipe and replace with new pipe including mobilization of equipment, traffic control, excavation, site clearance, pumping out of water, diversion of water courses, backfilling, compacting, complying to OSHA requirements, supply of reinstatement materials, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the works.		
B1.1	Pipes and specials up to 200mm ND (up to 6.0m length)	No	492.00
B1.2	Extra Over for additional length	m	75.00
B1.3	Pipe and specials for 201mm up to 300mm ND - ditto	No	674.00
B1.4	Extra Over for additional length	m	100.00
B1.5	Pipe and specials for 301mm up to 450mm ND - ditto	No	984.00
B1.6	Extra Over for additional length	m	150.00
B1.7	Pipe and specials for 451mm up to 600mm ND - ditto	No	1,540.00
B1.8	Extra Over for additional length	m	230.00
	UNDER ROAD AND PAVEMENT Collect from SAMB's store, transport all pipes and fittings to site, cut out damaged pipe and replace with new pipe including mobilization of equipment, traffic control, excavation, site clearance, pumping out of water, diversion of water courses, backfilling, compacting, complying to OSHA requirements, supply of reinstatement materials, including cutting of road with road cutter, supply of road reinstatement materials, reinstatement of road with sand, 600mm crusher run and 100mm bituminous course with area up to 8m2 and road furniture to restore its original condition, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the works.		
B1.9	Pipes and specials up to 200mm ND (up to 6.0m length)	No	2,106.00
B1.10	Extra Over for additional length	m	320.00
B1.11	Pipe and specials for 201mm up to 300mm ND - ditto	No	2,354.00
B1.12	Extra Over for additional length	m	360.00

ltem	Descriptions	Unit	SAMB'S RATE (RM)
	SECTION B : REPAIR OF PIPES AND SPECIALS (cont'd)		
B1.13	Pipe and specials for 301mm up to 450mm ND - ditto	No	3,326.00
B1.14	Extra Over for additional length	m	510.00
B1.15	Pipe and specials for 451mm up to 600mm ND - ditto	No	4,093.00
B1.16	Extra Over for additional length	m	630.00
B2	REPAIR OF PIPES & SPECIALS BY CUTTING OUT OF DAMAGED PORTION AND REPLACING WITH NEW PIPES THROUGH MECHANICAL JOINTING FOR DUCTILE IRON, CAST IRON & MILD STEEL		
	UNDER ROAD SHOULDER Collect from SAMB's store, transport all pipes and fittings to site, cut out damaged pipe and replace with new pipe including mobilization of equipment, traffic control, excavation, site clearance, pumping out of water, diversion of water courses, backfilling, compacting, complying to OSHA requirements, supply of reinstatement materials, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the works.		
B2.1	Pipes and specials up to 200mm ND (up to 6.0m length)	No	510.00
B2.2	Pipe and specials for 201mm up to 300mm ND - ditto	No	690.00
B2.3	Pipe and specials for 301mm up to 450mm ND - ditto	No	970.00
B2.4	Pipe and specials for 451mm up to 600mm ND - ditto	No	1,458.00
B2.5	Pipe and specials 601mm up to 800mm ND - ditto	No	2,052.00
B2.6	Pipe and specials 801mm up to 1000mm ND - ditto	No	2,484.00
B2.7	Pipe and specials 1001mm up to 1200mm ND - ditto	No	2,808.00
	UNDER ROAD AND PAVEMENT Collect from SAMB's store, transport all pipes and fittings to site, cut out damaged pipe and replace with new pipe including mobilization of equipment, traffic control, excavation, site clearance, pumping out of water, diversion of water courses, backfilling, compacting, complying to OSHA requirements, supply of reinstatement materials, including cutting of road with road cutter, supply of road reinstatement materials, reinstatement of road with sand, 600mm crusher run and 100mm bituminous course and road furniture to restore its original condition, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the works.		
B2.8	Pipes and specials up to 200mm ND (up to 6.0m length)	No	2,028.00

Item	Descriptions	Unit	SAMB'S RATE (RM)
	SECTION B : REPAIR OF PIPES AND SPECIALS (cont'd)		
B2.9	Pipe and specials for 201mm up to 300mm ND - ditto	No	2,392.00
B2.10	Pipe and specials for 301mm up to 450mm ND - ditto	No	3,224.00
B2.11	Pipe and specials for 451mm up to 600mm ND - ditto	No	4,066.00
B2.12	Pipe and specials 601mm up to 800mm ND - ditto	No	4,670.00
B2.13	Pipe and specials 801mm up to 1000mm ND - ditto	No	5,770.00
B2.14	Pipe and specials 1001mm up to 1200mm ND - ditto	No	6,220.00
В3	REPAIR OF PIPES & SPECIALS BY CUTTING OUT OF DAMAGED PORTION AND REPLACING WITH NEW PIPES THROUGH COLLAR WELD JOINTING FOR MILD STEEL PIPES		
	UNDER ROAD SHOULDER Collect from SAMB's store, transport all pipes and fittings to site, cut out damaged pipe and replace with new pipe including mobilization of equipment, traffic control, excavation, site clearance, pumping out of water, diversion of water courses, backfilling, compacting, complying to OSHA requirements, supply of reinstatement materials, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the works.		
B3.1	Pipes and specials up to 200mm ND (up to 6.0m length)	No	630.00
B3.2	Pipe and specials for 201mm up to 300mm ND - ditto	No	860.00
В3.3	Pipe and specials for 301mm up to 450mm ND - ditto	No	1,166.00
B3.4	Pipe and specials for 451mm up to 600mm ND - ditto	No	1,620.00
B3.5	Pipe and specials 601mm up to 800mm ND - ditto	No	2,376.00
B3.6	Pipe and specials 801mm up to 1000mm ND - ditto	No	3,500.00
B3.7	Pipe and specials 1001mm up to 1200mm ND - ditto	No	4,500.00

Item	Descriptions	Unit	SAMB'S RATE (RM)
	SECTION B : REPAIR OF PIPES AND SPECIALS (cont'd)		
	UNDER ROAD AND PAVEMENT Collect from SAMB's store, transport all pipes and fittings to site, cut out damaged pipe and replace with new pipe including mobilization of equipment, traffic control, excavation, site clearance, pumping out of water, diversion of water courses, backfilling, compacting, complying to OSHA requirements, supply of reinstatement materials, including cutting of road with road cutter, supply of road reinstatement materials, reinstatement of road with sand, 600mm crusher run and 100mm bituminous course and road furniture to restore its original condition, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the works.		
B3.8	Pipes and specials up to 200mm ND (up to 6.0m length)	No	2,289.00
B3.9	Pipe and specials for 201mm up to 300mm ND - ditto	No	2,675.00
B3.10	Pipe and specials for 301mm up to 450mm ND - ditto	No	3,745.00
B3.11	Pipe and specials for 451mm up to 600mm ND - ditto	No	4,428.00
B3.12	Pipe and specials 601mm up to 800mm ND - ditto	No	5,724.00
B3.13	Pipe and specials 801mm up to 1000mm ND - ditto	No	7,020.00
B3.14	Pipe and specials 1001mm up to 1200mm ND - ditto	No	7,560.00
В4	REPAIR OF PIPES & SPECIALS THROUGH WELDING OF MILD STEEL PLATES FOR		
	UNDER ROAD SHOULDER Collect from SAMB's store, transport ms short piece pipes to site, cut, fabricate, prepare surface and weld on to damaged pipe including mobilization of equipment, traffic control, excavation, site clearance, pumping out of water, diversion of water courses, backfilling, compacting, complying to OSHA requirements, supply of reinstatement materials, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the works.		
B4.1	Pipes and specials up to 200mm ND (up to 6.0m length)	No	500.00
B4.2	Pipe and specials for 201mm up to 300mm ND - ditto	No	735.00
B4.3	Pipe and specials for 301mm up to 450mm ND - ditto	No	963.00
B4.4	Pipe and specials for 451mm up to 600mm ND - ditto	No	1,458.00
B4.5	Pipe and specials 601mm up to 800mm ND - ditto	No	1,995.00
B4.6	Pipe and specials 801mm up to 1000mm ND - ditto	No	2,461.00

ltem	Descriptions	Unit	SAMB'S RATE (RM)
	SECTION B : REPAIR OF PIPES AND SPECIALS (cont'd)		
B4.7	Pipe and specials 1001mm up to 1200mm ND - ditto	No	2,808.00
	UNDER ROAD AND PAVEMENT Collect from SAMB's store, transport ms short piece pipes to site, cut, fabricate, prepare surface and weld on to damaged pipe including mobilization of equipment, traffic control, excavation, site clearance, pumping out of water, diversion of water courses, backfilling, compacting, complying to OSHA requirements, supply of reinstatement materials, including cutting of road with road cutter, supply of road reinstatement materials, reinstatement of road with sand, 600mm crusher run and 100mm bituminous course with area up to 4m2 and road furniture to restore its original condition, disposal of excess materials/debris, making good to restore the original surfaces as per S.0 Instruction and site condition and taking photographs of the works.		
B4.8	Pipes and specials up to 200mm ND (up to 6.0m length)	No	1,728.00
B4.9	Pipe and specials for 201mm up to 300mm ND - ditto	No	2,052.00
B4.10	Pipe and specials for 301mm up to 450mm ND - ditto	No	2,808.00
B4.11	Pipe and specials for 451mm up to 600mm ND - ditto	No	3,564.00
B4.12	Pipe and specials 601mm up to 800mm ND - ditto	No	5,508.00
B4.13	Pipe and specials 801mm up to 1000mm ND - ditto	No	6,696.00
B4.14	Pipe and specials 1001mm up to 1200mm ND - ditto	No	7,344.00
B5	REPAIR OF PIPES & SPECIALS BY INSTALLING STUB ENDS THROUGH BUTT FUSION OR ELECTROFUSION SOCKETS METHOD FOR POLYETHYLENE PIPES		
	UNDER ROAD SHOULDER Collect from SAMB's store, transport all pipes and fittings to site, cut out damaged pipe and replace with new pipe including mobilization of equipment, traffic control, excavation, site clearance, pumping out of water, diversion of water courses, backfilling, compacting, complying to OSHA requirements, supply of reinstatement materials, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the works.		
B5.1	Pipes and specials up to 200mm OD (up to 6.0m length)	No	594.00
B5.2	Pipe and specials exceeding 201mm up to 300mm ND - ditto	No	810.00
B5.3	Pipe and specials exceeding 301mm up to 450mm ND - ditto	No	1,026.00
B5.4	Pipe and specials exceeding 451mm up to 630mm ND - ditto	No	1,620.00

Item	Descriptions	Unit	SAMB'S RATE (RM)
	SECTION B : REPAIR OF PIPES AND SPECIALS (cont'd)		
	UNDER ROAD AND PAVEMENT Collect from SAMB's store, transport all pipes and fittings to site, cut out damaged pipe and replace with new pipe including mobilization of equipment, traffic control, excavation, site clearance, pumping out of water, diversion of water courses, backfilling, compacting, complying to OSHA requirements, supply of reinstatement materials, including cutting of road with road cutter, supply of road reinstatement materials, reinstatement of road with sand, 600mm crusher run and 100mm bituminous course and road furniture to restore its original condition, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the works.		
B5.5	Pipes and specials up to 200mm OD (up to 6.0m length)	No	2,268.00
B5.6	Pipe and specials exceeding 201mm up to 300mm ND - ditto	No	2,538.00
B5.7	Pipe and specials exceeding 301mm up to 450mm ND - ditto	No	3,575.00
B5.8	Pipe and specials exceeding 451mm up to 630mm ND - ditto	No	4,406.00
В6	REPAIR OF PIPES & SPECIALS BY INSTALLING MILD STEEL CLAMP / CLAMP SADDLE UNDER ROAD SHOULDER Collect from SAMB's store, transport fittings to site, install mild steel collar / clamp saddle, including mobilization of equipment, traffic control, excavation, site clearance, pumping out of water, diversion of water courses, backfilling, compacting, complying to OSHA requirements, supply of reinstatement materials, disposal of excess materials/debris, making good to		
	restore the original surfaces and taking photographs of the works.		
B6.1	Pipes and specials up to 200mm ND (up to 6.0m length)	No	300.00
B6.2	Pipe and specials for 201mm up to 300mm ND - ditto	No	492.00
B6.3	Pipe and specials for 301mm up to 450mm ND - ditto	No	910.00
B6.4	Pipe and specials for 451mm up to 600mm ND - ditto	No	1,177.00

ltem	Descriptions	Unit	SAMB'S RATE (RM)
	SECTION B : REPAIR OF PIPES AND SPECIALS (cont'd)		
	UNDER ROAD AND PAVEMENT Collect from SAMB's store, transport fittings to site, install mild steel collar / clamp saddle, including mobilization of equipment, traffic control, excavation, site clearance, pumping out of water, diversion of water courses, backfilling, compacting, complying to OSHA requirements, supply of reinstatement materials, including cutting of road with road cutter, supply of road reinstatement materials, reinstatement of road with sand, 600mm crusher run and 100mm bituminous course and road furniture to restore its original condition, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the works.		
B6.5	Pipes and specials up to 200mm ND (up to 6.0m length)	No	1,594.00
B6.6	Pipe and specials for 201mm up to 300mm ND - ditto	No	1,840.00
B6.7	Pipe and specials for 301mm up to 450mm ND - ditto	No	2,429.00
B6.8	Pipe and specials for 451mm up to 600mm ND - ditto	No	3,071.00
	ON S-BEND / EXPOSE PIPE Collect from SAMB's store, transport fittings to site, install mild steel collar / clamp saddle, including mobilization of equipment, traffic control, excavation, site clearance, diversion of water courses, complying to OSHA requirements, supply of reinstatement materials, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the works.		
B6.9	Pipes and specials up to 200mm ND	No	130.00
B6.10	Pipe and specials for 201mm up to 300mm ND	No	216.00
B6.11	Pipe and specials for 301mm up to 450mm ND	No	270.00
B6.12	Pipe and specials for 451mm up to 600mm ND	No	378.00
В7	REPAIR OF PIPES & SPECIALS BY WELDING USING WELDING ROD		
	ON S-BEND / EXPOSE PIPE Collect from SAMB's store, transport fittings to site, install mild steel collar / clamp saddle, including mobilization of equipment, traffic control, excavation, site clearance, diversion of water courses, complying to OSHA requirements, supply of reinstatement materials, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the works.		
B7.1	Pipes and specials up to 200mm ND	No	364.00
B7.2	Pipe and specials for 201mm up to 300mm ND	No	492.00

ltem	Descriptions	Unit	SAMB'S RATE (RM)
	SECTION B : REPAIR OF PIPES AND SPECIALS (cont'd)		
B7.3	Pipe and specials for 301mm up to 450mm ND	No	604.00
B7.4	Pipe and specials for 451mm up to 600mm ND	No	734.00
	PIPE CONNECTION TO EXISTING PIPES		
	Make all necessary preparation, piloting and location existing pipe, excavate and reinstate to its original existing pipe, excavate and reinstate to its original condition. Sum to include cutting of existing pipe, preparing pipe end ready for jointing, and fixing of all steel specials, all HDPE specials, all collar joint/mechanical couplings, dewatering and all temporary works at the following locations.		
B.8	HOTTAPPING WORKS Connection from new water main to existing water main pipes using hot tapping including to supply manpower, equipment and material as described.		
B.8.1	300mm x 600mm	No	15,000.00
B.8.2	400mm x 600mm	No	17,000.00
B.8.3	400mm x 700mm	No	20,000.00
B.8.4	500mm x 700mm	No	22,000.00
B.8.5	500mm x 800mm	No	37,000.00
B.8.6	600mm x 800mm	No	40,000.00
B.8.7	500mm x 900mm	No	43,000.00
B.8.8	600mm x 900mm	No	45,000.00
B.8.9	600mm x 1000mm	No	40,000.00
B.8.10	700mm x 1000mm	No	47,000.00
B.8.11	800mm x 1000mm	No	50,000.00
B.8.12	600mm x 1200mm	No	50,000.00
B.8.13	700mm x 1200mm	No	55,000.00
B.8.14	800mm x 1200mm	No	58,000.00

Item	Descriptions	Unit	SAMB'S RATE (RM)
	SECTION C : REPAIR OF COMMUNICATION PIPES		
	(ALL WORKS TO CARRIED OUT BY LICENSED PLUMBER APPROVED BY SAMB)		
C1	REPAIR AT TAPPING POINT (INCLUDING COMMUNICATION PIPE UP TO 2.0 METER LENGTH)		
	UNDER ROAD SHOULDER Collect from SAMB's store, transport all pipes and fittings to site, cut out damaged pipe and replace with new pipe including mobilization of equipment, traffic control, excavation, site clearance, pumping out of water, diversion of water courses, backfilling, compacting, complying to OSHA requirements, supply of reinstatement materials, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the works.		
C1.1	Replacement of damaged saddle, ferrule, fittings or communication pipe for <u>25mm - 40mm</u> HDPE/PA up to 2.0 meter length.	No	216.00
C1.2	Extra over for additional tapping point in one excavation.	No	54.00
C1.3	Extra <u>over</u> for additional LENGTH communication pipe for 25mm - 40mm HDPE/PA	m	5.00
C1.4	Replacement of damaged saddle, ferrule, fittings or communication pipe for 50mm - 80mm HDPE/PA pipe up to 2.0 meter length.	No	300.00
C1.5	Extra over for additional tapping point in one excavation.	No	65.00
C1.6	Extra over for additional communication pipe for 50mm - 80mm HDPE/PA	m	8.00
	UNDER ROAD AND PAVEMENT Collect from SAMB's store, transport all pipes and fittings to site, cut out damaged pipe and replace with new pipe including sleeves (if necessary), mobilization of equipment, traffic control, excavation, site clearance, pumping out of water, diversion of water courses, backfilling, compacting, complying to OSHA requirements, supply of reinstatement materials, including cutting of road with road cutter, supply of road reinstatement materials, reinstatement of road with sand, 300mm crusher run and 100mm bituminous course with area up to 4m2 and road furniture to restore its original condition, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the works.		
C1.7	Replacement of damaged saddle, ferrule, fittings or communication pipe for <u>25mm - 40mm</u> HDPE/PA up to 2.0 meter length.	No	711.00
C1.8	Extra over for additional tapping point in one excavation.	No	59.00
C1.9	Extra over for additional communication pipe for 25mm - 40mm HDPE/PA	m	5.00

Item	Descriptions	Unit	SAMB'S RATE (RM)
	SECTION C: REPAIR OF COMMUNICATION PIPES (cont'd) (ALL WORKS TO CARRIED OUT BY LICENSED PLUMBER APPROVED BY SAMB)		
C1.10	Replacement of damaged saddle, ferrule, fittings or communication pipe for 50mm - 80mm HDPE/PA pipe up to 2.0 meter length.	No	800.00
C1.11	Extra over for additional tapping point in one excavation.	No	70.00
C1.12	Extra over for additional communication pipe for 50mm - 80mm HDPE/PA	m	8.00
C2	MINOR REPAIR (INCLUDING COMMUNICATION PIPE LESS THAN 2.0 METER LENGTH)		
	UNDER ROAD SHOULDER Collect from SAMB's store, transport all pipes and fittings to site, cut out damaged pipe and replace with new pipe including mobilization of equipment, traffic control, excavation, site clearance, pumping out of water, diversion of water courses, backfilling, compacting, complying to OSHA requirements, supply of reinstatement materials, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the works.		
C2.1	Communication Pipe Replacement of damaged communication pipe for 25mm-40mm HDPE/PA pipe up to 2.0 meter length. (Depth not less than 0.45m)	No	115.00
C2.2	Extra Over for additional length	m	20.00
C2.3	Replacement of damaged communication pipe for <u>50mm-80mm</u> HDPE/PA pipe up to 2.0 meter length. (Depth not less than 0.45m)	No	130.00
C2.4	Extra Over for additional length	m	30.00
	UNDER ROAD AND PAVEMENT Collect from SAMB's store, transport all pipes and fittings to site, cut out damaged pipe and replace with new pipe including sleeves (if necessary), mobilization of equipment, traffic control, excavation, site clearance, pumping out of water, diversion of water courses, backfilling, compacting, complying to OSHA requirements, supply of reinstatement materials, including cutting of road with road cutter, supply of road reinstatement materials, reinstatement of road with sand, 300mm crusher run and 100mm bituminous course and road furniture to restore its original condition, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the works.		
C2.5	Communication Pipe Replacement of damaged communication pipe for 25mm-40mm HDPE/PA pipe up to 2.0 meter length. (Depth not less than 0.45m)	No	400.00

ltem	Descriptions	Unit	SAMB'S RATE (RM)
	SECTION C : REPAIR OF COMMUNICATION PIPES (cont'd) (ALL WORKS TO CARRIED OUT BY LICENSED PLUMBER APPROVED BY SAMB)		
C2.6	Extra Over for additional length	m	124.00
C2.7	Replacement of damaged communication pipe for <u>50mm-80mm</u> HDPE/PA pipe up to 2.0 meter length. (Depth not less than 0.45m)	No	432.00
C2.8	<u>Extra Over</u> for additional length	m	140.00
C3	INSTALL NEW TAPPING POINT (INCLUDING COMMUNICATION PIPE UP TO 2.0 METER LENGTH)		
	EXTRA OVER UNDER SECTION B (REPAIR OF PIPES)		
	UNDER ROAD SHOULDER / UNDER ROAD AND PAVEMENT Collect from SAMB's store, to provide labour, machineries, equipments, fittings and transport to site, traffic control, complying to OSHA requirements, disposal of excess material, making good to restore the original surfaces, commissioning and taking photographs of the works as per S.O instruction.		
C3.1	Install new saddle, ferrule, fittings or communication pipe for <u>25mm</u> <u>-</u> <u>40mm</u> HDPE/PA pipe up to 2.0 meter length	No	54.00
C3.2	Install new saddle, ferrule, fittings or communication pipe for <u>50mm</u> <u>-</u> <u>80mm</u> HDPE/PA pipe up to 2.0 meter length	No	65.00
C3.3	Extra over for additional communication pipe for 25mm - 40mm HDPE/PA	No	9.00
C4	REPAIR OF METER STAND (G.I Pipe)(Single)		
	UNDER ROAD SHOULDER / UNDER ROAD AND PAVEMENT To supply, transport all pipes and fittings to site, cut out damaged pipe or fittings and replace with new one, excavation, site clearance, backfilling, compacting, fabricate, complying to OSHA requirements, supply of reinstatement materials, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the work including to provide with all necessary accessories and fitting related to site condition and works on site as per S.O Instructions.		
C4.1	Supply and Install for repair of damaged meter stand for 15mm / 20mm meter stand	No	240.00
C4.2	Supply and Install for repair of damaged meter stand for 25mm meter stand	No	292.00
C4.3	Supply and Install for repair of damaged meter stand for 32mm / 38mm / 40mm meter stand.	No	360.00

ltem	Descriptions	Unit	SAMB'S RATE (RM)
	SECTION C : REPAIR OF COMMUNICATION PIPES (cont'd) (ALL WORKS TO CARRIED OUT BY LICENSED PLUMBER APPROVED BY SAMB)		
C4.4	Supply and Install for repair of damaged meter stand for 50mm meter stand	No	450.00
C4.5	Supply and Install for repair of damaged meter stand for 100mm - 150mm meter stand	No	1,033.00
	EXPOSED ON ROAD To supply, transport all pipes and fittings to site, cut out damaged pipe or fittings and replace with new one, excavation, site clearance, fabricate, complying to OSHA requirements, supply of reinstatement materials, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the work including to provide with all necessary accessories and fitting related to site condition and works on site as per S.O Instructions.		
C4.6	Supply and Install for repair of damaged meter stand for 15mm / 20mm meter stand	No	190.00
C4.7	Supply and Install for repair of damaged meter stand for 25mm meter stand	No	240.00
C4.8	Supply and Install for repair of damaged meter stand for 32mm / 38mm / 40mm meter stand.	No	312.00
C4.9	Supply and Install for repair of damaged meter stand for 50mm meter stand	No	400.00
C4.10	Supply and Install for repair of damaged meter stand for 100mm - 150mm meter stand	No	980.00
	SECTION C : REPAIR OF COMMUNICATION PIPES (cont'd)		
C5	REPAIR OF METER STAND (G.I Pipe)(Multiple)		
	UNDER ROAD SHOULDER / UNDER ROAD AND PAVEMENT / BUILDING To supply, transport all pipes and fittings to site, cut out damaged pipe or fittings and replace with new one, excavation, site clearance, backfilling, compacting, fabricate, complying to OSHA requirements, supply of reinstatement materials, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the work including to provide with all necessary accessories and fitting related to site condition and works on site as per S.O Instructions.		
C5.1	Supply and Install for repair of damaged 1 tier meter stand for 40mm meter stand	No	362.00
C5.2	Ditto for 2 tier meter stand ditto	No	435.00
C5.3	Ditto for 3 tier meter stand ditto	No	788.00

Item	Descriptions	Unit	SAMB'S RATE (RM)
	SECTION C: REPAIR OF COMMUNICATION PIPES (cont'd) (ALL WORKS TO CARRIED OUT BY LICENSED PLUMBER APPROVED BY SAMB)		
C5.4	Supply and Install for repair of damaged 1 tier meter stand for 50mm meter stand	No	450.00
C5.5	Ditto for 2 tier meter stand ditto	No	750.00
C5.6	Ditto for 3 tier meter stand ditto	No	1,050.00
	EXPOSED ON ROAD / SHOPLOT To supply, transport all pipes and fittings to site, cut out damaged pipe or fittings and replace with new one, excavation, site clearance, fabricate, complying to OSHA requirements, supply of reinstatement materials, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the work including to provide with all necessary accessories and fitting related to site condition and works on site as per S.O Instructions.		
C5.7	Supply and Install for repair of damaged 1 tier meter stand for 40mm meter stand	No	310.00
C5.8	Ditto for 2 tier meter stand ditto	No	385.00
C5.9	Ditto for 3 tier meter stand ditto	No	738.00
C5.10	Supply and Install for repair of damaged 1 tier meter stand for 50mm meter stand	No	400.00
C5.11	Ditto for 2 tier meter stand ditto	No	700.00
C5.12	Ditto for 3 tier meter stand ditto	No	1,000.00

Item	Descriptions	Unit	SAMB'S RATE (RM)
	SECTION C: REPAIR OF COMMUNICATION PIPES (cont'd) (ALL WORKS TO CARRIED OUT BY LICENSED PLUMBER APPROVED BY SAMB)		
C6	REPLACEMENT OF METER STAND (STANLESS STEEL)		
	Cut out damaged meter stand and replace with new one including excavation, site clearance, backfilling, compacting, complying to OSHA requirements, supply of reinstatement materials, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the works including all necessary fitting and accessories based on site condition and as per S.O instruction. To Install of a complete set Stainless Steel Meter Stand for Water Meter.		
	To Install of a complete set Stainless Steel Meter Stand for Water Meter including complete set and all necessary fitting, accessories and works based on site condition and as per S.O Instruction		
C6.1	15mm	No	320.00
C6.2	20mm	No	450.00
C6.3	25mm	No	338.00
C6.4	32mm, 38mm & 40mm	No	720.00
C6.5	50mm	No	1,040.00
	Cut out damaged meter stand and replace with new one including excavation, site clearance, backfilling, compacting, complying to OSHA requirements, supply of reinstatement materials, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the works including all necessary fitting and accessories based on site condition and as per S.O instruction. [Cont'd]		
	Supply and install a HALF SET stainless steel meter stand BEFORE water meter complete with Brass Lockable Valve / Gate Valve for water meter including complete set and all necessary fitting, accessories and works based on site condition and as per S.O Instruction.		
C6.6	15mm	No	240.00
C6.7	20mm	No	260.00
C6.8	25mm	No	290.00
C6.9	32mm, 38mm & 40mm	No	380.00
C6.10	50mm	No	590.00

Item	Descriptions	Unit	SAMB'S RATE (RM)
	SECTION C: REPAIR OF COMMUNICATION PIPES (cont'd) (ALL WORKS TO CARRIED OUT BY LICENSED PLUMBER APPROVED BY SAMB)		
	Supply and install a HALF SET stainless steel meter stand BEFORE water meter complete with Brass Stop Cock for water meter including complete set and all necessary fitting, accessories and works based on site condition and as per S.O Instruction.		
C6.11	15mm	No	160.00
C6.12	20mm	No	180.00
C6.13	25mm	No	200.00
C6.14	32mm, 38mm & 40mm	No	260.00
C6.15	50mm	No	400.00
C 7	PLUGGING OF METER STAND		
C7.1	Supply and install for plugging meter stand for all meter stand sizes	No	16.00
C8	SERVICE OF T-POT STRAINER OR Y-STRAINER		
C8.1	T-Pot Strainer or Y-Strainer less than 100mm dia.	No	162.00
C8.2	T-Pot Strainer or Y-Strainer less than 150mm dia.	No	216.00
C8.3	T-Pot Strainer or Y-Strainer less than 300mm dia.	No	378.00
C8.4	T-Pot Strainer or Y-Strainer more than 300mm dia up to 600mm dia.	No	648.00
	TRENCHLESS METHOD		
С9	IMPACT MOLLING Supply and lay by Impact Molling Drilling or equivalent method for HDPE / Polypipe / PA pipe across metalled road. Rate to include excavation, backfill and reinstatement works as specified by the S.O.		
C9.1	Replacement of damaged communication pipe for 25mm - 40mm HDPE/PA	No	139.00
C9.2	Replacement of damaged communication pipe for 50mm - 80mm HDPE/PA	No	162.00

ltem	Descriptions	Unit	SAMB'S RATE (RM)
	SECTION D : VALVE REPAIR & REPLACEMENT		
D1	REPLACEMENT OF SLUICE VALVES USING MECHANICAL COUPLING		
	UNDER ROAD SHOULDER Collect from SAMB's store, transport valves, short piece pipe and fittings to site, dismantle damaged valve and replace with new valve including Mild Steel Short Piece on existing pipe through mechanical jointing, mobilization of equipment, traffic control, excavation, site clearance, pumping out of water, diversion of water courses, backfilling, compacting, complying to OSHA requirements, supply of reinstatement materials, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the works.		
D1.1	Sluice Valve not exceeding 200mm dia.	No	460.00
D1.2	Sluice Valve exceeding 200mm but not exceeding 300mm dia.	No	593.00
D1.3	Sluice Valve exceeding 300mm but not exceeding 450mm dia.	No	690.00
D1.4	Sluice Valve exceeding 450mm but not exceeding 600mm dia.	No	1,112.00
	UNDER ROAD AND PAVEMENT Collect from SAMB's store, transport all valves and fittings to site, dismantle damaged valve and replace with new valve including Mild Steel Short Piece on existing pipe through mechanical jointing, mobilization of equipment, traffic control, excavation, site clearance, pumping out of water, diversion of water courses, backfilling, compacting, complying to OSHA requirements, supply of reinstatement materials, including cutting of road with road cutter, supply of road reinstatement materials, reinstatement of road with sand, 300mm crusher run and 100mm bituminous course and road furniture to restore its original condition, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the works.		
D1.5	Sluice Valve not exceeding 200mm dia.	No	929.00
D1.6	Sluice Valve exceeding 200mm but not exceeding 300mm dia.	No	1,048.00
D1.7	Sluice Valve exceeding 300mm but not exceeding 450mm dia.	No	1,361.00
D1.8	Sluice Valve exceeding 450mm but not exceeding 600mm dia.	No	1,858.00

Item	Descriptions	Unit	SAMB'S RATE (RM)
	SECTION D : VALVE REPAIR & REPLACEMENT (cont'd)		
D2	REPLACEMENT OF SLUICE VALVES BY WELDING OF FLANGE ADAPTOR		
	UNDER ROAD SHOULDER Collect from SAMB's store, transport valves, short piece pipe and fittings to site, dismantle damaged valve and replace with new valve and install Mild Steel Short Piece on existing pipe through mechanical jointing including mobilization of equipment, traffic control, excavation, site clearance, pumping out of water, diversion of water courses, backfilling, compacting, complying to OSHA requirements, supply of reinstatement materials, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the works.		
D2.1	Sluice Valve not exceeding 200mm dia.	No	551.00
D2.2	Sluice Valve exceeding 200mm but not exceeding 300mm dia.	No	680.00
D2.3	Sluice Valve exceeding 300mm but not exceeding 450mm dia.	No	1,102.00
D2.4	Sluice Valve exceeding 450mm but not exceeding 600mm dia.	No	1,712.00
	UNDER ROAD AND PAVEMENT Collect from SAMB's store, transport all valves, short piece pipe and fittings to site, dismantle damaged valve and replace with new valve and install Mild Steel Short Piece on existing pipe through mechanical jointing including mobilization of equipment, traffic control, excavation, site clearance, pumping out of water, diversion of water courses, backfilling, compacting, complying to OSHA requirements, supply of reinstatement materials, including cutting of road with road cutter, supply of road reinstatement materials, reinstatement of road with sand, 300mm crusher run and 100mm bituminous course and road furniture to restore its original condition, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the works.		
D2.5	Sluice Valve not exceeding 200mm dia.	No	1,177.00
D2.6	Sluice Valve exceeding 200mm but not exceeding 300mm dia.	No	1,242.00
D2.7	Sluice Valve exceeding 300mm but not exceeding 450mm dia.	No	1,728.00
D2.8	Sluice Valve exceeding 450mm but not exceeding 600mm dia.	No	1,987.00

Item	Descriptions	Unit	SAMB'S RATE (RM)
	SECTION D: VALVE REPAIR & REPLACEMENT (cont'd)		
D3	REPAIR OF SLUICE VALVES THROUGH REPLACEMENT OF GLAND PACKING		
	UNDER ROAD SHOULDER Collect from SAMB's store, transport parts to site, dismantle the old gland packing and replace with new one including mobilization of equipment, traffic control, excavation, site clearance, pumping out of water, diversion of water courses, backfilling, compacting, complying to OSHA requirements, supply of reinstatement materials, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the works.		
D3.1	Sluice Valve not exceeding 200mm dia.	No	130.00
D3.2	Sluice Valve exceeding 200mm but not exceeding 300mm dia.	No	162.00
D3.3	Sluice Valve exceeding 300mm but not exceeding 450mm dia.	No	216.00
D3.4	Sluice Valve exceeding 450mm but not exceeding 600mm dia.	No	270.00
	UNDER ROAD AND PAVEMENT Collect from SAMB's store, transport parts to site, dismantle the old gland packing and replace with new one including mobilization of equipment, traffic control, excavation, site clearance, pumping out of water, diversion of water courses, backfilling, compacting, complying to OSHA requirements, supply of reinstatement materials, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the works.		
D3.5	Sluice Valve not exceeding 200mm dia.	No	594.00
D3.6	Sluice Valve exceeding 200mm but not exceeding 300mm dia.	No	702.00
D3.7	Sluice Valve exceeding 300mm but not exceeding 450mm dia.	No	864.00
D3.8	Sluice Valve exceeding 450mm but not exceeding 600mm dia.	No	972.00

Item	Descriptions	Unit	SAMB'S RATE (RM)
	SECTION D : VALVE REPAIR & REPLACEMENT (cont'd)		
D4	REPLACEMENT OF AIR VALVES		
	UNDER ROAD SHOULDER Collect from SAMB's store and replacement of Air Valve through socket/flange jointing including mobilization of equipment, traffic control, excavation, site clearance, pumping out of water, diversion of water courses, backfilling, compacting, complying to OSHA requirements, supply of reinstatement materials, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the works.		
D4.1	Single Orifice Air Valve 25mm dia.	No	108.00
D4.2	Double Orifice Air Valve 50mm dia.	No	162.00
D4.3	Double Orifice Air Valve 80mm dia.	No	184.00
D4.4	Double Orifice Air Valve 100mm dia.	No	216.00
	UNDER ROAD AND PAVEMENT Collect from SAMB's store and replacement of Air Valve through socket/flange jointing including mobilization of equipment, traffic control, excavation, site clearance, pumping out of water, diversion of water courses, backfilling, compacting, complying to OSHA requirements, supply of reinstatement materials, including cutting of road with road cutter, supply of road reinstatement materials, reinstatement of road with sand, 300mm crusher run and 100mm bituminous course and road furniture to restore its original condition, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the works.		
D4.5	Single Orifice Air Valve 25mm dia.	No	540.00
D4.6	Double Orifice Air Valve 50mm dia.	No	594.00
D4.7	Double Orifice Air Valve 80mm dia.	No	648.00
D4.8	Double Orifice Air Valve 100mm dia.	No	756.00

Item	Descriptions	Unit	SAMB'S RATE (RM)
	SECTION D : VALVE REPAIR & REPLACEMENT (cont'd)		
	ON 'S' BEND Collect from SAMB's store and replacement of Air Valve through socket/flange jointing including mobilization of equipment, traffic control, site clearance, pumping out of water, diversion of water courses, backfilling, compacting, complying to OSHA requirements, supply of reinstatement materials, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the works.		
D4.9	Single Orifice Air Valve 25mm dia.	No	76.00
D4.10	Double Orifice Air Valve 50mm dia.	No	97.00
D4.11	Double Orifice Air Valve 80mm dia.	No	119.00
D4.12	Double Orifice Air Valve 100mm dia.	No	140.00
D5	REPAIR OF AIR VALVE TEE BY WELDING		
	Mobilization to site, prepare surface and weld on to damaged areas including equipment, traffic control, site clearance, complying to OSHA requirements, supply of reinstatement materials, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the works including with all neccessary works based on site condition and S.O instruction.		
D5.1	Air Valve 50mm dia.	No	231.00
D5.2	Air Valve 100mm dia.	No	308.00
D5.3	Air Valve 150mm dia.	No	385.00
D5.4	Air Valve 200mm dia.	No	462.00
D6	REPAIR OF AIR VALVES THROUGH SERVICING AND REPLACEMENT OF PARTS		
	UNDER ROAD SHOULDER Collect from SAMB's store and repair of Air Valve through servicing and replacement of parts including mobilization of equipment, traffic control, excavation, site clearance, pumping out of water, diversion of water courses, backfilling, compacting, complying to OSHA requirements, supply of reinstatement materials, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the works.		
D6.1	Single Orifice Air Valve 25mm dia.	No	97.00

Item	Descriptions	Unit	SAMB'S RATE (RM)
	SECTION D : VALVE REPAIR & REPLACEMENT (cont'd)		
D6.2	Double Orifice Air Valve 50mm dia.	No	108.00
D6.3	Double Orifice Air Valve 80mm dia.	No	140.00
D6.4	Double Orifice Air Valve 100mm dia.	No	173.00
	UNDER ROAD AND PAVEMENT Collect from SAMB's store and repair of Air Valve through servicing and replacement of parts including mobilization of equipment, traffic control, excavation, site clearance, pumping out of water, diversion of water courses, backfilling, compacting, complying to OSHA requirements, supply of reinstatement materials, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the works.		
D6.5	Single Orifice Air Valve 25mm dia.	No	454.00
D6.6	Double Orifice Air Valve 50mm dia.	No	486.00
D6.7	Double Orifice Air Valve 80mm dia.	No	594.00
D6.8	Double Orifice Air Valve 100mm dia.	No	702.00
	REPAIR OF AIR VALVES THROUGH SERVICING AND REPLACEMENT OF PARTS		
	ON 'S' BEND Collect from SAMB's store and repair of Air Valve through servicing and replacement of parts including mobilization of equipment, traffic control, excavation, site clearance, pumping out of water, diversion of water courses, backfilling, compacting, complying to OSHA requirements, supply of reinstatement materials, disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the works.		
D6.9	Single Orifice Air Valve 25mm dia.	No	54.00
D6.10	Double Orifice Air Valve 50mm dia.	No	76.00
D6.11	Double Orifice Air Valve 80mm dia.	No	97.00
D6.12	Double Orifice Air Valve 100mm dia.	No	108.00

ltem	Descriptions	Unit	SAMB'S RATE (RM)
	SECTION E : REPAIR OF CHAMBERS		
	UNDER ROAD SHOULDER Collect from SAMB's store, transport chamber components to site, dismantle the old chamber and replace with new components including mobilization of equipment, traffic control, excavation, site clearance, pumping out of water, diversion of water courses. (For Air Valve, Sluice Valve and Scour Valve)		
E1	Repair of Precast Chamber through replacement of <u>COVER</u> including painting as specified		
E1.1	605mm x 530mm	No	43.00
E1.2	840mm x 760mm	No	65.00
E2	Repair of Precast Chamber through replacement of <u>TOP</u> <u>LAYER</u> including painting as specified (Note: Any extra unit (top/ intermediate/ bottom) installed at the same location shall be paid under item E5)		
E2.1	605mm x 530mm	No	54.00
E2.2	840mm x 760mm	No	86.00
E3	Repair of Precast Chamber through replacement of <u>BOTTOM LAYER</u> (Note: Any extra unit (top/ intermediate/ bottom) installed at the same location shall be paid under item E5)		
E3.1	605mm x 530mm	No	216.00
E3.2	840mm x 760mm	No	270.00
E4	Repair of Precast Chamber through replacement of 1 no. of (Note: Any extra unit (top/ intermediate/ bottom) installed at the same location shall be paid under item E5)		
E4.1	605mm x 530mm	No	162.00
E4.2	840mm x 760mm	No	184.00
E5	Extra Over additional number for top/ intermediate/ bottom layer		
E5.1	605mm x 530mm	No	22.00
E5.2	840mm x 760mm	No	32.00

Item	Descriptions	Unit	SAMB'S RATE (RM)
	SECTION E : REPAIR OF CHAMBERS - (cont'd)		
E6	Repair and replacement of Chamber		
E6.1	Cone Chamber (heavy duty)	No	194.00
E6.2	Cone Chamber Cover (heavy duty)	No	54.00
	UNDER ROAD AND PAVEMENT Collect from SAMB's store, transport chamber components to site, dismantle the old chamber and replace with new components including mobilization of equipment, traffic control, excavation, site clearance, pumping out of water, diversion of water courses. [Note: Expect for valve replacement where road reinstatement is covered under valve replacement item]		
E7	Repair of Precast Chamber through replacement of <u>COVER</u> including painting as specified		
E7.1	605mm x 530mm	No	43.00
E7.2	840mm x 760mm	No	65.00
E8	Repair of Precast Chamber through replacement of <u>TOP</u> <u>LAYER</u> including painting as specified (Note: Any extra unit (top/ intermediate/ bottom) installed at the same location shall be paid under item E5)		
E8.1	605mm x 530mm	No	324.00
E8.2	840mm x 760mm	No	378.00
E9	Repair of Precast Chamber through replacement of <u>BOTTOM LAYER</u> (Note: Any extra unit (top/ intermediate/ bottom) installed at the same location shall be paid under item E5)		
E9.1	605mm x 530mm	No	378.00
E9.2	840mm x 760mm	No	486.00

Item	Descriptions	Unit	SAMB'S RATE (RM)
	SECTION E : REPAIR OF CHAMBERS - (cont'd)		
E10	Repair of Precast Chamber through replacement of 1 no. of INTERMEDIATE LAYER		
	(Note: Any extra unit (top/ intermediate/ bottom) installed at the same location shall be paid under item E5)		
E10.1	605mm x 530mm	No	378.00
E10.2	840mm x 760mm	No	486.00
E11	Extra Over additional number for top/ intermediate/ bottom layer		
E11.1	605mm x 530mm	No	22.00
E11.2	840mm x 760mm	No	32.00
E12	Repair and replacement of Chamber		
E12.1	Cone Chamber (heavy duty)	No	432.00
E12.2	Cone Chamber Cover (heavy duty)	No	65.00
	UNDER ROAD SHOULDER Supply, fabricate, install and transport chamber components to site, dismantle the old chamber and replace with new components including mobilization of equipment, traffic control, excavation, site clearance, pumping out of water, diversion of water courses, making good to restore		
E13	Supply, fabricate and install including repair and reinstatement of chamber including painting as specified.		
E13.1	Ductile Iron Cover (heavy duty)	No.	810.00
E13.2	Chequered Plate Cover with Bracing (6mm thick)	M2	486.00
E13.3	Precast Slab Cover (100mm thick)	M2	270.00
E13.4	Mild Steel U-Channel Cover	M2	756.00
E13.5	Cone Chamber (heavy duty)	No.	1,296.00

Item	Descriptions	Unit	SAMB'S RATE (RM)
E14	SECTION E: REPAIR OF CHAMBERS - (cont'd) MARKER POST Supply and erect marker posts complete with embossed symbols and numbers as shown in the Drawings. Rate to include excavation, concrete base, painting and ancillary works. The marker posts shall be obtained from approved sources and as directed by the S.O.	No	32.00

Item	Descriptions	Unit	SAMB'S RATE (RM)
	SECTION F: REPLACEMENT OF S-BEND		
	Collect from SAMB's store, transport the materials to site, dismantle the damaged 'S' Bend, fabricate and replace with new 'S' Bend and air valve with weld jointing including mobilization of equipment, traffic control, excavation, site clearance, pumping out of water, diversion of water courses, backfilling, compacting and complying to OSHA requirements, supply of reinstatement materials, including anchor block, piling etc; disposal of excess materials/debris, making good to restore the original surfaces and taking photographs of the works.		
F1	'S' Bend 100mm ND and not exceeding 6.0 meter length.	No	1,800.00
F2	'S' Bend 150mm ND and not exceeding 6.0 meter length.	No	2,250.00
F3	'S' Bend not exceeding 200mm ND and not exceeding 6.0 meter length.	No	3,000.00
F4	S' Bend exceeding 200mm but not exceeding 300mm ND and not exceeding 6.0 meter length.	No	3,600.00
F5	S' Bend exceeding 300mm but not exceeding 400mm ND and not exceeding 6.0 meter length.	No	4,100.00
F6	S' Bend exceeding 400mm but not exceeding 600mm ND and not exceeding 6.0 meter length.	No	5,184.00
F7	Extra Over for item F1 with exceeding 6 meter length.	M	59.00
F8	Extra Over for item F2 with exceeding 6 meter length.	М	86.00
F9	Extra Over for item F3 with exceeding 6 meter length.	М	124.00
F10	Extra Over for item F4 with exceeding 6 meter length.	М	130.00
F11	Extra Over for item F5 with exceeding 6 meter length.	М	162.00
F12	Extra Over for item F6 with exceeding 6 meter length.	М	216.00
F13	Extra Over for painting including with 1 layer of finishing anti rust and 2 layer of finishing Gloss Finish (Haze Blue) with Nippon Paint and/or equivalent.	M2	22.00

Item	Descriptions	Unit	SAMB'S RATE (RM)
G1	SECTION G: ANCILLARY WORKS PILING Supply, handle, pitch and drive bakau pile to the required penetration including cutting off pile head and supply and fix MS Sleeve for jointing Bakau Pile. EXCAVATION	М	6.00
G2	Excavation in rock.	M3	54.00
G3	Excavation in concrete base.	М3	76.00
G4	Extra over excavation for crossing hedges, brick fences and wall. Rate to include demolition, replacement of brick fences and walls, reinstatement and reconstruction.	No	54.00
G 5	Extra over excavation for crossing under water courses, earth drains, under concrete drains and culverts of all sizes.	No	32.00
G6	Allow for all necessary machineries, apparatus and other required including trial holes/pit not exceeding 3.0M depth	M3	20.00
G7	Allow for all necessary machineries, apparatus and other required including trial holes/pit exceeding 3.0M depth	M3	25.00
	MANUAL EXCAVATION (WORKERS)		
	Excavation in hand including removal of soil or other material manually using hand tools such as spades, pickaxes, crowbars, etc., in trenches, pits, foundations, or open areas for the purpose of laying pipes, footings, manholes, meter stands, PA Pipe, HDPE/Polypipe or other construction activities. Work includes stacking of serviceable material, disposal of excavated earth within a lead of 50 m and lift up to 1.5 m, including dressing of sides and ramming of bottoms, backfilling after completion of work where required, all as per site conditions and direction of the S.O Instruction.		
G8	Dig up to 1500mm deep (by hand)	М3	53.40
G9	Digging more than 1500mm but not more than 3000mm deep (by hand)	М3	88.30
G10	Digging more than 3000mm but not more than 4500mm deep (by hand)	М3	112.10

Item	Descriptions	Unit	SAMB'S RATE (RM)
	SECTION G : ANCILLARY WORKS (cont'd)		
	<u>BACKFILLING</u>		
G11	Supply, fill and compact sand	М3	32.00
G12	Supply, spread and compact crusher run granite	М3	43.00
G13	Supply and lay single layer of filter Geotextile high strength or equivalent as per standard for laying pipe in metalled road	M2	10.00
	REINSTATEMENT		
G14	Reinstatement of Interlocking Pavers including making good to restore the original surfaces.	M2	43.00
G15	Reinstatement of 100mm thick Concrete Slab including screeding.	M2	76.00
G16	Reinstatement of Ceramic tiles.	M2	81.00
G17	Replacement of Carpet Grass.	M2	32.00
G18	Replacement of Cow Grass.	M2	5.00
G19	Supply, reinstate of road to the original levels up to 100mm thick with bituminous course complete with tack coat.	M2	60.00
	STONE PITCHING		
G20	Supply and lay 225mm thick Stone Pitching	M2	76.00
	BRICKWORK Supply and lay brickwork as specified to the following:-		
G21	115mm thick common brick.	M2	43.00
G22	225mm ditto	M2	86.00
G23	340mm ditto	M2	130.00

Item	Descriptions	Unit	SAMB'S RATE (RM)
	SECTION G: ANCILLARY WORKS (cont'd)		
	<u>CONCRETE</u>		
G24	Supply, lay and compact concrete with wire mesh A8 including formwork and related necessary works.	M3	450.00
	PRE-CAST CONCRETE		
G25	Precast slab cover (100mm thick) come with handle bar.	M2	400.00
	<u>PLASTERING</u>		
G26	20mm thick plaster to internal faces of brickwall.	M2	16.00
G27	20mm thick render to external faces of brickwall.	M2	16.00
	Supply, fabricate and install <u>Concrete'U' drain</u>		
G28	300mm x 600mm	М	40.00
G29	375mm x 600mm	M	63.00
G30	450mm x 600mm	М	71.00
G31	600mm x 600mm	М	83.00
	Supply, fabricate and install <u>Concrete half round drain</u>		
G32	225mm x 600mm	М	32.00
G33	300mm x 600mm	М	48.00
G34	375mm x 600mm	М	54.00
G35	450mm x 600mm	М	65.00
	Supply, fabricate and install <u>Reinforced concrete pipe culvert</u> .		
G36	225mm	М	120.00
G37	300mm	M	280.00

Item	Descriptions	Unit	SAMB'S RATE (RM)
	SECTION C · ANCILL ARY WORKS (contid)		
	SECTION G: ANCILLARY WORKS (cont'd)		
G38	450mm	М	310.00
G39	525mm	М	348.00
G40	600mm	M	350.00
G41	675mm	М	486.00
G42	750mm	М	563.00
G43	900mm	M	600.00
G44	1050mm	М	876.00
G45	1200mm	М	1,096.00
	Supply, fabricate and install <u>Concrete road kerb</u> .		
G46	250mm x 600mm	M	44.00
G47	300mm x 600mm	М	58.00
G48	250mm x 600mm (hole)	М	46.00
G49	300mm x 600mm (hole)	M	59.00
G50	375mm x 450mm x 600mm (bend)	М	44.00
G51	375mm x 450mm x 450mm (bend)	М	41.00
G52	375mm x 450mm x 600mm (bend & hole)	M	51.00
	SHORING WORKS		
	SHEET PILE (Limitation to 2 months only)		
G53	Supply and install sheet pile 3m \times 3m \times 9m for shoring works over 2.5m depth and limit to 5m depth	No	36,750.00
G54	Supply and install sheet pile 4m \times 4m \times 9m for shoring works over 2.5m depth and limit to 5m depth	No	42,000.00

Item	Descriptions	Unit	SAMB'S RATE (RM)
G55	SECTION G: ANCILLARY WORKS (cont'd) Supply and install sheet pile 5m x 5m x 9m for shoring works over 2.5m depth and limit to 5m depth	No	47,250.00
	TIMBER Supply and install timber and plywood grade A including timber 2" x 3", support plywood 2" x 3" and GI pipe size 3" diameter the size of timber		
G56	2m x 2m x 2.5m depth	No	10,500.00
G57	3m x 3m x 2.5m depth	No	15,750.00
	CORRING TO WALL To supply equipments for corring works to existing wall and slab.		
G58	100mm	No.	3,675.00
G59	150mm	No.	5,250.00
	TAPPING PROBE		
G60	Supply and install saddle, ferrule, fittings, steam socket, ball valve and all necessary works, fittings, etc. for 15mm - 50mm tapping from MS Pipe.	No.	1,080.00
G61	Supply and install saddle, ferrule, fittings, ball valve and all necessary works, fittings, etc. for 15mm - 50mm tapping from AC Pipe.	No.	1,620.00

Item	Descriptions	Unit	SAMB'S RATE (RM)
H1	SECTION H: EXTRA OVERS Additional charge for works to be carried out beyond normal working hours (exceeding 7.00pm) as required and approved by the S.O	Lump Sum / Works Orders	216.00
H2	Additional charge for work order issued beyond normal working hours (between 7.00pm to 7.00am) as required and approved by the S.O	Lump Sum / Works Orders	378.00
Н3	Additional charge for work order issued and to be carried out in SUNDAY as required and approved by the S.O	Lump Sum / Gang / Day	200.00
H4	Additional charge for work order issued and to be carried out in MELAKA PUBLIC HOLIDAYS as required and approved by the S.O	Lump Sum / Gang / Day	324.00
Н5	Additional charge for work order issued and to be carried out in HOLIDAYS ANNOUNCEMENT BY THE GOVERNMENT as required and approved by the S.O	Lump Sum / Gang / Day	200.00

Item	Descriptions	Unit	SAMB'S RATE (RM)
	SECTION J : SCHEDULE OF DAYWORK RATES - LABOUR		
J1	Foreman	Manday	90.00
J2	Mason / Concretor	Manday	95.00
J3	Carpenter	Manday	101.00
J4	Steel Bender	Manday	101.00
J5	Welder	Manday	110.00
J6	Plumber	Manday	100.00
J7	Bricklayer	Manday	101.00
J8	Plasterer	Manday	101.00
J9	Male Labourer	Manday	72.00
J10	Female Labourer	Manday	72.00
J11	Pipelayer (or Jointer)	Manday	97.00
J12	Plant Operator	Manday	110.00
J13	Truck/Lorry Driver Lorry	Manday	90.00

Item	Descriptions	Unit	SAMB'S RATE (RM)
	SECTION K : SCHEDULE OF DAYWORK RATES - MACHINERY & TOOLS		
K1	Lorry-tipping 1 tonnes up to and including 3 tonnes	Hour	39.00
K2	Lorry-tipping over 3 tonnes up to and including 6 tonnes	Hour	55.00
К3	Welding set include welding equipment	Hour	28.00
K4	Concrete Mixer (10/7 capacity)	Hour	33.00
K5	Concrete Breaker	Hour	28.00
K6	Hand Compactor	Hour	28.00
K7	Road cutter	Hour	33.00
K8	Air Compressor	Hour	39.00
К9	Pump, portable, Including hoses strainer etc.		
K9.1	- 75mm	Day	150.00
K9.2	- 100mm	Day	250.00
K9.3	- 150mm	Day	400.00
K10	Backhoe / JCB (Rate Include Driver)	Day	600.00
K11	Backhoe / JCB with breaker (Rate Include Driver)	Day	660.00
K12	Excavator (Rate Include Driver)	Day	1,100.00
K13	Oxyacetylene cutting equipment including gas	Hour	33.00
K14	Mobile Crane, 15 tonnes	Day	990.00
K15	Generator Set (3KV)	Day	198.00
K16	1 Tonne Roller	Hour	50.00
K17	Vibrator Hammer	Hour	138.00
K18	Load Loader Trailer	Hour	1,650.00

CONTOH PENGIRAAN TUNTUTAN BULANAN

ITEM	KETERANGAN	AMAUN (RM)
1	Jumlah Kerja Pembaikan & Lain-Lain Kerja Berkaitan	20,000.00
	(Bahagian B - G)	
2	Tambahan Kerja Awalan (4%) setiap kerja yang dijalankan	800.00
	mengikut bulan	
3	Jumlah Jualan	20,800.00
4	Tolakan Jumlah Denda * (KEHENDAK-KEHENDAK PROJEK)	(100.00)
5	Jumlah Bayaran Balik Pelupusan Paip & Pepasangan Lama	(156.00)
	(0.75% dari Bahagian B - F)	
6	JUMLAH TUNTUTAN BULANAN	20,544.00

BAHAGIAN I LATARBELAKANG PETENDER

LATAR BELAKANG PETENDER

Borang A -	Surat Pengakuan Kebenaran Maklumat dan Kesahihan Dokumen Yang Dikemukakan oleh Petender }	}
Borang B -	Maklumat Am Latar Belakang Petender	}
Borang C -	Data-Data Kewangan	}BORANG
Borang D -	Rekod Pengalaman Kerja	}BORANG
Borang E -	Kakitangan Teknikal	}MAKLUMAT
Borang F -	Keempunyaan Loji Dan Peralatan Pembinaan Utama	}
Borang G -	Senarai Kerja Kontrak Semasa	}
Borang CA -	Laporan Bank/Institusi Kewangan Mengenai Kedudukan Kewangan Petender	} DOKUMEN } DOKUMEN }
Borang GA -	Laporan Penyelia Projek Atas Prestasi Kerja (Bukan Projek SAMB) Semasa Petender	<pre>} SOKONGAN } </pre>
Borang GA1-	Laporan Jurutera Projek Atas Prestasi Kerja Semasa Petender	}

BORANG A -	: SURAT PENGAKUAN KEBENARAN MAKLUMAT DAN KESAHIHAN DOKUMEN YANG DIKEMUKAKAN OLEH PETENDER.
Nama Kontraktor	······································
Alamat	·
Kepada,	

Ketua Pegawai Eksekutif, Syarikat Air Melaka Berhad. (Pihak yang akan menilai tender)

Tuan,

MAKLUMAT LATAR BELAKANG, KEWANGAN DAN TEKNIKAL PETENDER

- 1. Kami telah membaca dan teliti semua arahan-arahan yang terkandung dalam Arahan Kepada Petender termasuk arahan yang menghendakkan kami mengemukakan maklumat-maklumat dan dokumen-dokumen mengenai perkara di atas bersama-sama dokumen tender kami semasa mengemukakan Tender ini untuk membolehkan SAMB menilai keupayaan kami untuk melaksanakan kerja yang ditender, semasa penilaian Tender.
- 2. Kami faham dan mengambil maklum bahawa penilaian Tender ini akan mengambil kira dan mementingkan keupayaan kami melaksanakan kerja yang ditender. Justeru itu tender kami akan hanya dipertimbang untuk diperakukan kepada Lembaga Tender untuk disetuju terima sekiranya kami didapati berkeupayaan untuk melaksanakan projek yang ditender, mengikut penilaian SAMB berasaskan maklumat-maklumat dan dokumendokumen yang kami kemukakan.
- 3. Kami juga mengambil maklum bahawa kami dikehendaki mengemukakan semua maklumat dan dokumen-dokumen yang diminta bersama-sama tender kami sebelum Tender ditutup dan maklumat-maklumat atau dokumen-dokumen yang dikemukakan kemudian daripada itu tidak akan diterima untuk diambil kira dalam penilaian keupayaan kami.
- 4. Kami mengaku bahawa maklumat-maklumat dan data-data yang kami berikan bersamasama ini di Borang B, C, CA, D, E, F,G & GA dan dokumen-dokumen yang kami sertakan bersamanya setahu kami adalah semuanya benar dan sah pada semua segi dan kami telah mengambil makluman dan sedar akan tindakan yang boleh diambil oleh SAMB terhadap kami dan/atau tender kami, sekiranya mana-mana maklumat, data-data dan dokumen yang kami berikan itu didapati tidak benar atau palsu.

- 5. Kami juga mengambil maklum dan sedar bahawa Tender kami akan ditolak (disqualified) dan tidak akan dipertimbangkan sekiranya maklumat-maklumat yang kami berikan tidak mencukupi atau sekiranya kami gagal untuk memberikan bersama-sama ini mana-mana maklumat dan/atau menyertakan mana-mana dokumen penting yang sangat diperlukan untuk membolehkan SAMB menilai keupayaan kami, terutamanya dokumen-dokumen berhubung dengan kedudukan kewangan dan prestasi kerja semasa kami seperti berikut:-
 - (1) Salinan Akaun Syarikat yang telah disahkan dan diaudit oleh Juru Audit yang bertauliah, bagi dua (2) tahun kewangan terakhir.
 - (2) Salinan Penyata Bulanan Akaun Bank mengenai Wang Dalam tangan petender bagi (3) bulan terakhir sebelum tarikh tutup Tender;
 - (3) Laporan Penyelia Projek atas prestasi kerja semasa yang bukan projek SAMB atas Borang GA dalam satu sampul berlakri bagi setiap kerja semasa yang sedang dilaksanakan.
- 6. Kami dengan ini memberi kuasa kepada mana-mana pegawai kerajaan, jurutera-jurutera projek, bank dan institusi kewangan lain dan lain-lain atau mana-mana orang atau firma yang berkenaan untuk memberikan maklumat-maklumat yang dianggap perlu dan diminta oleh SAMB untuk menyemak maklumat-maklumat yang kami berikan atau untuk mendapatkan maklumat tambahan. Kami mengambil maklum bahawa pihak SAMB juga boleh merujuk apa-apa maklumat yang kami kemukakan dengan mana-mana pihak termasuk Jabatan Hasil Dalam Negeri. Walau bagaimanapun kami tetap bertanggungjawab di atas maklumat-maklumat dan dokumen-dokumen yang kami berikan bersama-sama ini.

Yang Benar,	
	Tarikh:
(Tandatangan Petender)	
Nama Penuh:	
No. Kad Pengenalan:	
Atas Sifat:	
Yang diberi kuasa dengan sempurnanya untuk mendatanga	ani Tender ini untuk dan bagi pihak:
(Meteri atas Cap Petender)	
Saksi:	Tarikh:
Nama Penuh:	
No. Kad Pengenalan:	
Pekerjaan:	

Alamat:....

BORANG B – MAKLUMAT AM LATAR BELAKANG PETENDER

Naı	ma:		
. Ala	mat:		
No.	. Telefon:	_ No.Fax:	
. Pen	ndaftaran dengan Lembaga Pemban	gunan Industri Pembinaan M	Ialaysia (CIDB) / Kementerian
Kev	wangan Malaysia (Sertakan Salinan	Pendaftaran)	
(i)	No. Pendaftaran:		
(ii)			a
(iii)	Gred, Pengkhususan / Kod Bidan		
(iv)	Taraf (Bumiputera / Bukan Bumij	putera):	
(v)	Jika Bumiputera, tempoh sah tara	f: Dari :	_ Hingga
. Bag	gi Syarikat Sdn. Bhd. Nyatakan:		
(i)	Modal dibenarkan : RM		
(ii)	Modal dibayar : RM		
. Per	niagaan Utama lain, jika ada:		
(a)		sejak tahun	
(b)		sejak tahun	
. Ahl	li-ahli Syarikat		
(i)	Ahli-ahli Lembaga Pengarah		
	Nama	Jawatan	Saham Modal Dipegan

Nama	Jawatan	Saham Modal Dipegang

(i) Ahli-ahli Lembaga Pengarah (Samb)

Nama	Jawatan	Saham Modal Dipegang

(ii) Ahli-ahli Pengurusan

Nama	Jawatan	Kelulusan Akademik/Iktias

BORANG C-DATA-DATA KEWANGAN

A. <u>Ringkasan harta dan liabiliti</u> seperti yang ditunjukkan dalam Lembaran Imbangan (Balance Sheet)* yang diaudit bagi tahun kewangan terakhir:-

Asset* (A)	Liabiliti * (B)	Nilai Kewangan (Werth) (A-B)
Semasa : RM Tetap : RM	Semasa: RM Tetap : RM	Model Pusingan: RM Model Tetap : RM
Jumlah : RM	Jumlah : RM	'Nett Worth' : RM

В.		Akaun Wa	ang Di Tangan (Cash in Hand)**					
	1.	Nama dan	Alamat Bank di mana akaun di buka:					
	2.	Nombor A	kaun:					
С		Kemudahan Kredit (jika ada) +						
	1.	1. Nama dan Alamat Bank/Insitusi Kewangan yang memberi Kemudahan Kredit:						
	2.	Bentuk da	n baki amaun yang boleh digunakan untuk p	rojek pembinaan				
		(i)	Overdraf atau Talian Kredit	RM				
		(ii)	Overdraf bercagar	RM				
		(iii)	Pinjaman Tetap yang akan/layak					
		()	Diperolehi untuk Projek	RM				
		(iv)	1 J	RM				
		()	Jumlah	RM				

PERINGKATAN PENTING

- * Sila sertakan salinan Akaun Syarikat bagi dua (2) tahun kewangan terakhir, yang disahkan dan diaudit oleh Juru Audit bertauliah (certified Accountant) atau sekiranya tiada, bagi tahun kewangan setahun sebelumnya bagi menyokong data-data yang diberi. Tender yang tidak disertakan dengan Akaun ini akan ditolak.
- ** Sila sertakan salinan Penyata Bulanan Bank bagi tiga (3) bulan terakhir sebelum tarikh tutup Tender. Tender yang tidak disertakan dengan penyata ini akan ditolak.
- + Sila dapat dan sertakan Laporan sulit daripa Pihak Bank/Institusi Kewangan atas format seperti Borang CA, dalam satu sampul berlakri.

BORANG D - REKOD PENGALAMAN KERJA

(Senarai semua kerja yang disiapkan dalam 5 tahun lepas)

Bil	Nama Kontrak/Projek dan Skop	Nilai Kontrak	Nilai Petender	Tempoh	Tarikh Milik									Tarikh	n Siap	Nama dan Alama Pegawai Penguas		, Nama dan Alamat
	Kerja +	(RM)	Bertanggungjawab	Kontrak**	Tapak	Kontrak	Sebenar	Jurutera Perunding		Majikan								

- + Salinan Perakuan/Pengesahan Siap Kerja bagi setiap kerja yang disenaraikan hendaklah disertakan.
- * Hanya perlu diisi sekiranya petender melaksanakan kerja sebagai ahli syarikat gabungan.
- ** Tempoh Kontrak hendaklah termasuk lanjutan masa yang diluluskan

BORANG E - KAKITANGAN TEKNIKAL

(Butir-butir Kakitangan Teknikal Yang Ada Dalam Pengajian Petender Masa Kini)

Nama dan No.K/P	Umur	Kelulusan Professional/Pendidikan**	Tahun Kelulusan	Tarikh diambil Bekerja	Jawatan yang Disandang/Tugas-tugas semasa	Pengalaman Lepas (Jawatan disandang, nama projek dan majikan dan tempoh bekerja dan sebagainya)
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

^{*} Salinan Borang KWSP 'A' setiap pekerja bagi bulan caruman terakhir dan salinan perjanjian perkhidmatan ahli professional yang diambil khidmat secara kontrak hendaklah disertakan.

^{**} Sila sertakan salinan sijil kelulusan atau sijil keahlian Badan-badan Professional.

BORANG F - KEUPAYAAN LOJI DAN PERALATAN PEMBINAAN UTAMA

(Senarai Loji dan Peralatan Pembinaan Utama Keupayaan Petender Yang Sesuai Yang Boleh Digunakan Untuk Projek).

Bil	Butiran (Jenis, Model, Buatan dan Keupayaan/Saiz)	Dimiliki, disewabeli atau disewapajak*	Bilangan Setiap Satu	Nilai Semasa (RM)	Umur (dari tarikh belian asal)	Tempat simpanan/digunakan sekarang	Catatan
A.	Loji dan Peralatan Asas** (a) Treatment Plant Equipments (b) Pumping and Mechanical Plants (c) Electrical Equipments (all as per Specification)						
В	Loji dan Peralatan Lain						

^{*} Salinan kad pendaftaran dan/atau dokumen-dokumen lain bukti keempunyaan hak milik petender atau perjanjian sewabeli-sewapajak atas setiap Loji dan Peralatan yang disenaraikan hendaklah disertakan.

^{**} Pegawai yang menyediakan Dokumen Tender hendaklah menyenaraikan butir-butir Loji dan Peralatan Asas bagi projek berkenaan (tanpa bilangan AKM)

BORANG G - SENARAI KERJA KONTRAK SEMASA

(Senarai semua kerja di dalam tangan/sedang berjalan dan belum siap termasuk kontrak yang baru dilantik)

Bil	Nama Kontraktor/Projek+	Nilai Kontrak (RM)	Nilai Petender* Bertanggungjawab	Tempoh Kontrak**	Tarikh Milik Tapak	Tarikh Siap Kontrak	Kemajua Ikut Jadual (%)	n Kerja + Sebenar Dicapai (%)	Nama dan Alamat Jurutera Projek	Nama dan Alamat Majikan

- * Hanya perlu diisi sekirnya petender melaksanakan kerja sebagai ahli syarikat gabungan.
- ** Tempoh Kontrak hendaklah termasuk lanjutan masa yang diluluskan.
- + Peringatan Penting
 Bagi setiap kerja semasa yang bukan projek SAMB, sertakan (wajib) Laporan Peyelia Projek atas format seperti Borang GA, dalam satu sampul berlakri. Tender yang tidak disertakan dengan Laporan ini bagi setiap kerja yang disenaraikan, akan ditolak.

SULIT

BORANG CA - LAPORAN BANK/INSTITUSI KEWANGAN MENGENAI KEDUDUKAN KEWANGAN PETENDER

(Borang ini hendaklah dilengkapkan oleh pihak bank atau institusi kewangan lain dan diserahkan kepada petender dalam satu sampul berlakri untuk disertakan bersama-sama tendernya sekiranya petender mempunyai kemudahan kredit dengan Bank/Institusi Kewangan yang berkenaan.

Kepada			
(Ketua Pegawai E	ksekutif, SAMB)		
Nama Petender:			
Projek:			
(A) – Kemudahan Kredit – yang bole telah dilulus dan kemudahan kredit seperti berikut:-			
Bentuk Kemudahan Kredit	Baki drp yang Telah diluluskan	Tambahan Minima Yang akan Diluluskan*	Jumlah
 (i) Overdraf (ii) Overdraf bercagar (iii) Talian Kredit (iv) Pinjaman Tetap yang akan/layak Diperolehi untuk projek 	RM RM RM RM	RM RM RM RM	RM RM RM RM
(v) Jumlah:	RM RM	RM RM	RM RM
(B) – Ulasan-ulasan mengenai kedudu Tandatangan untuk dan bagi pihak ban	-	n petender:-	
Nama Bank:	Nama Pegawa	ıi :	
Materi Bank:	Jawatan Tarikh	:	

SULIT

BORANG GA – LAPORAN PENYELIA PROJEK ATAS PRESTASI KERJA

(BUKAN PROJEK SAMB) SEMASA PETENDER

(Borang ini hendaklah dilengkapkan oleh Penyelia Projek atau Pembantu Kanannya yang mengawasi projek dan diserahkan kepada Kontraktor dalam satu sampul berlakri untuk disertakan bersama-sama tendernya).

Kepada:	
	awai Eksekutif, ir Melaka Berhad.
Nama Kontraktor:	
	an:
Harga Kontrak (termasuk angg Wang Pos Prima dan Peruntuka Nilai Kerja Pembina	
Tarikh Milik Tapak : Tarikh Penyiapan Asal :	Tempoh Kontrak: minggu
Lanjutan Masa Yang Telah Dil	uluskan: hari
Lanjutan Masa seterusnya: Yang difikir/dijangka layak dip Atas sebab-sebab	erakukan: hari
(i)	
(ii)	
Kemajuan kerja (berdasaran ni Pencapaian sebenar: Tarikh Kerja dijangka akan dap	
Nilai Bahagian Kerja Yang Tel Nilai Baki Kerja Yang Belum S	
	si Kontraktor; n/atau kelemahan kontraktor dan juga apa-apa tindakan/perakuan yang ng dengan prestasi Kontraktor melaksanakan Kontrak).
Tandatangan Penyelia Projek	·
Nama	:
Jawatan	:
Tarikh	·

SULIT

BORANG GA1	-	LAPORAN JURUTERA PROJEK ATAS PRESTASI KERJA SEMASA
		PETENDER

TETENDER	
(Borang ini hendaklah dilengkapkan oleh Jurutera Projek atau Pembantu projek apabila diminta berbuat demikian oleh Pegawai Penilaian dan hemenggunakan mesin fax).	ı Kanannya yang mengawasi
Kepada: Ketua Pegawai Eksekutif, Syarikat Air Melaka Berhad.	
Nama Kontraktor	
Nama Projek Yang Dilaksanakan	
No. Kontrak	
Harga Kontrak (termasuk anggaran nilai kerja perubahan) Wang Kos Prima dan Peruntukan Sementara Nilai Kerja Pembina	:RM :RM :RM
Tarikh Milik Tapak: Tempoh Kontrak: Tarikh Penyiapan Asal:	minggu
Lanjutan Masa Yang Telah Diluluskan: ha	ari
Lanjutan Masa Seterusnya: Yang difikir/dijangka layak diperakukan: ha	nri
Atas Sebab-sebab:	
(i)	
(ii)	
Kemajuan Kerja (berdasarkan nilaian kerja yang telah dilaksanakan):	
Pencapaian sebenar:% Mengikut Jadual:	
Tarikh Kerja dijangka akan dapat disiapkan:	
Nilai Bahagian Kerja Yang Telah Siap : RM Nilai Baki Kerja Yang Belum Siap : RM	

Olasan-Ulasan meng	-		
(Nyatakan apa-apa kepujian dan/atau kelemahan kontraktor dan juga apa-apa tindakan/perakuan yang diambil/dipertimbang berhubung dengan prestasi Kontraktor melaksanakan Kontrak)			
diamon/dipertimoan	ig bernubui	ig dengan prestasi Kontraktor metaksanakan Kontrak)	
Tandatangan Pegaw	ai Penguas	a/	
Jurutera Projek/Wak		<u></u>	
	Nama	:	
	Jawatan	:	
	Tarikh	:	