KEMENTERIAN PERUMAHAN DAN KERAJAAN TEMPATAN

PEMBINAAN PROJEK BALAI BOMBA DAN KUARTERS PUTATAN, SABAH



LAPORAN KAWALAN KUALITI PERUNDING
(Mei 2022)

24.05.2022

PERUNDING IDEAL

STATUS PENGEMUKAAN KEJURUTERAAN KEPADA PIHAK BERKUASA TEMPATAN (PBT)

LUKISAN	NAMA AGENSI/PBT	TARIKH PERMOHONAN	STATUS
KERJA TANAH	MDP	09/06/2022	Telah kemukakan ke MDP
BEKALAN AIR	JANS	08/02/2021	Lulus. 20 Mei 2021. JANS menerima pakai rekabentuk Submission No.1
JALAN RAYA	MDP & JKR	09/06/2022	Telah kemukakan ke MDP
PAIP PEMBENTUNGAN & STP	MDP & JKR		Lulus 18 Nov 2021.
PARIT	MDP & JPS	22/03/2021	Lulus, 07 Feb 2022.
STRUKTUR	MDP		09/06/22 pengemukaan ke UKAS untuk tandatangan



JABATAN AIR NEGERI SABAH
JURUTERA AIR BAHAGIAN
JABATAN AIR KOTA KINABALU,
PETI SURAT NO. 14677,
88853 KOTA KINABALU.

Telefon: 088-717070; Faks: 088-713522
Laman Web: www.sabah.gov.my/air

No.Rujukan kami:JAN.KK:600-1/(XI)/403 -4 Tarikh:18 Februari,21

Perunding Ideal,
P.O.box 21749,
88775 Luyang,Kota Kinabalu,
Sabah, Malaysia

Tuan,

CADANGAN PROJEK PEMBINAAN PROJEK BALAI BOMBA DAN KUARTERS PUTATAN DI ATAS SEBAHAGIAN LOT NT.213059771,JALAN SAILAN IMBAAN PUTATAN,DAERAH PUTATAN,SABAH
PEMILIK:JABATAN BOMBA DAN PENYELAMAT MALAYSIA.
RUJ: PI-393/GW/O8 BERTARIKH: 8 FEBRUARI,2021.
NO.LUKISAN: PI-393/WS/001-WATER SUPPLY LAYOUT PLAN
PI-393/WS/001-WATER SUPPLY DETAIL

Dengan hormatnya perkara yang tersebut diatas adalah dirujuk.

2. Pelan cadangan sistem retikulasi bekalan air yang dikemukakan telahpun diperiksa berikut adalah ulasan Jabatan Air Kota Kinabalu:
a. Dicadangakan pengunaan sesalur paip air dari jenis DI (ductile Iron) atau jenis paip plastik yang diluluskan serta berdaftar dengan Jabatan Air Negeri Sabah.
b. Kemukakan anggaran pengunaan bekalan air harian.
c. Sesalur paip air selepas meter air juga dicadangkan dari jenis DI (ductile Iron) atau jenis paip plastik .

Sekian dan terima kasih.

"BERKHIDMAT UNTUK NEGARA"

Saya yang menjalankan amanah.

(CHEE CHUN CHIEH)
JURUTERA AIR BAHAGIAN
JABATAN AIR, KOTA KINABALU.

Thm

"SABAH MAJU JAYA"

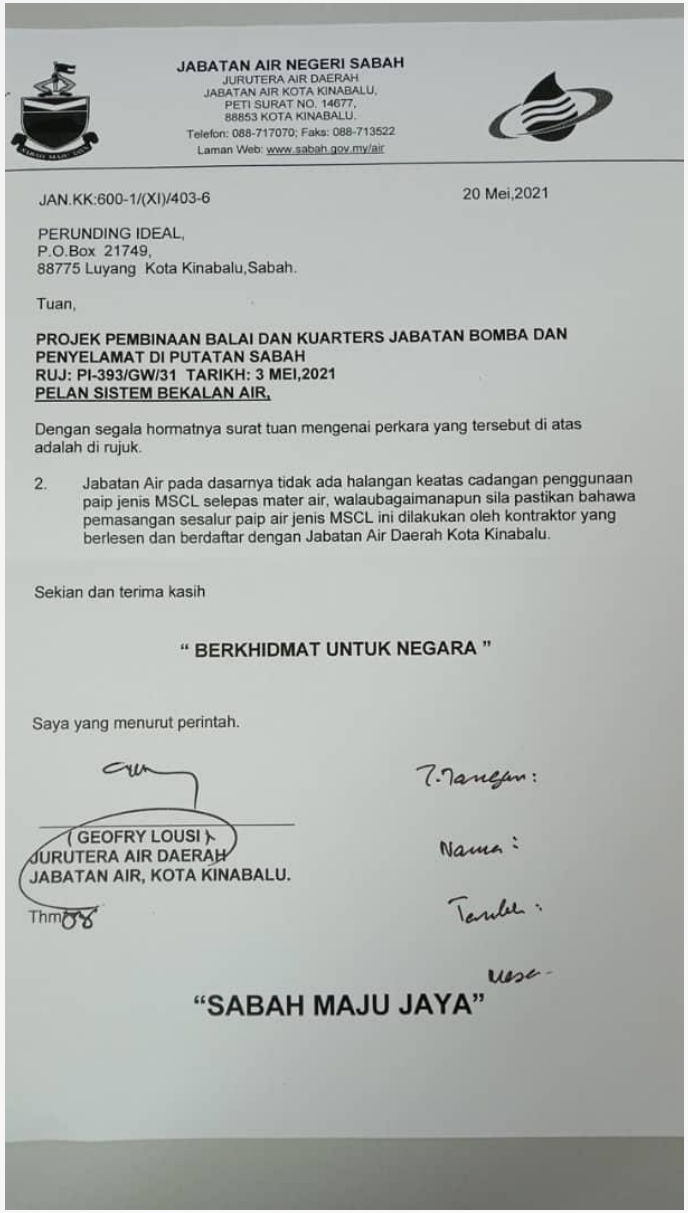
Surat Ulasan JANS

a. Dicadangkan pengunaan sesalur paip air dari Jenis DI (Ductile Iron) atau jenis paip plastik yang diluluskan serta berdaftar dengan JANS.

b. Kemukakan anggaran pengu naan bekalan air harian.

c. Sesalur paip air selepas meter air juga dicadangkan dari jenis DI (ductile iron) atau jenis paip plastik.

Surat JANS



JABATAN AIR NEGERI SABAH
JURUTERA AIR DAERAH
JABATAN AIR KOTA KINABALU,
PETI SURAT NO. 14677,
88853 KOTA KINABALU.
Telefon: 088-717070; Faks: 088-713522
Laman Web: www.sabah.gov.my/air

JAN.KK:600-1/(XI)/403-6 20 Mei,2021

PERUNDING IDEAL,
P.O.Box 21749,
88775 Luyang Kota Kinabalu,Sabah.

Tuan,

PROJEK PEMBINAAN BALAI DAN KUARTERS JABATAN BOMBA DAN PENYELAMAT DI PUTATAN SABAH
RUJ: PI-393/GW/31 TARIKH: 3 MEI,2021
PELAN SISTEM BEKALAN AIR,

Dengan segala hormatnya surat tuan mengenai perkara yang tersebut di atas adalah di rujuk.

2. Jabatan Air pada dasarnya tidak ada halangan keatas cadangan penggunaan paip jenis MSCL selepas mater air, walaubagaimanapun sila pastikan bahawa pemasangan sesalur paip air jenis MSCL ini dilakukan oleh kontraktor yang berlesen dan berdaftar dengan Jabatan Air Daerah Kota Kinabalu.

Sekian dan terima kasih

" BERKHIDMAT UNTUK NEGARA "

Saya yang menurut perintah.

(GEOFRY LOUSI)
JURUTERA AIR DAERAH
JABATAN AIR, KOTA KINABALU.

Thm/08

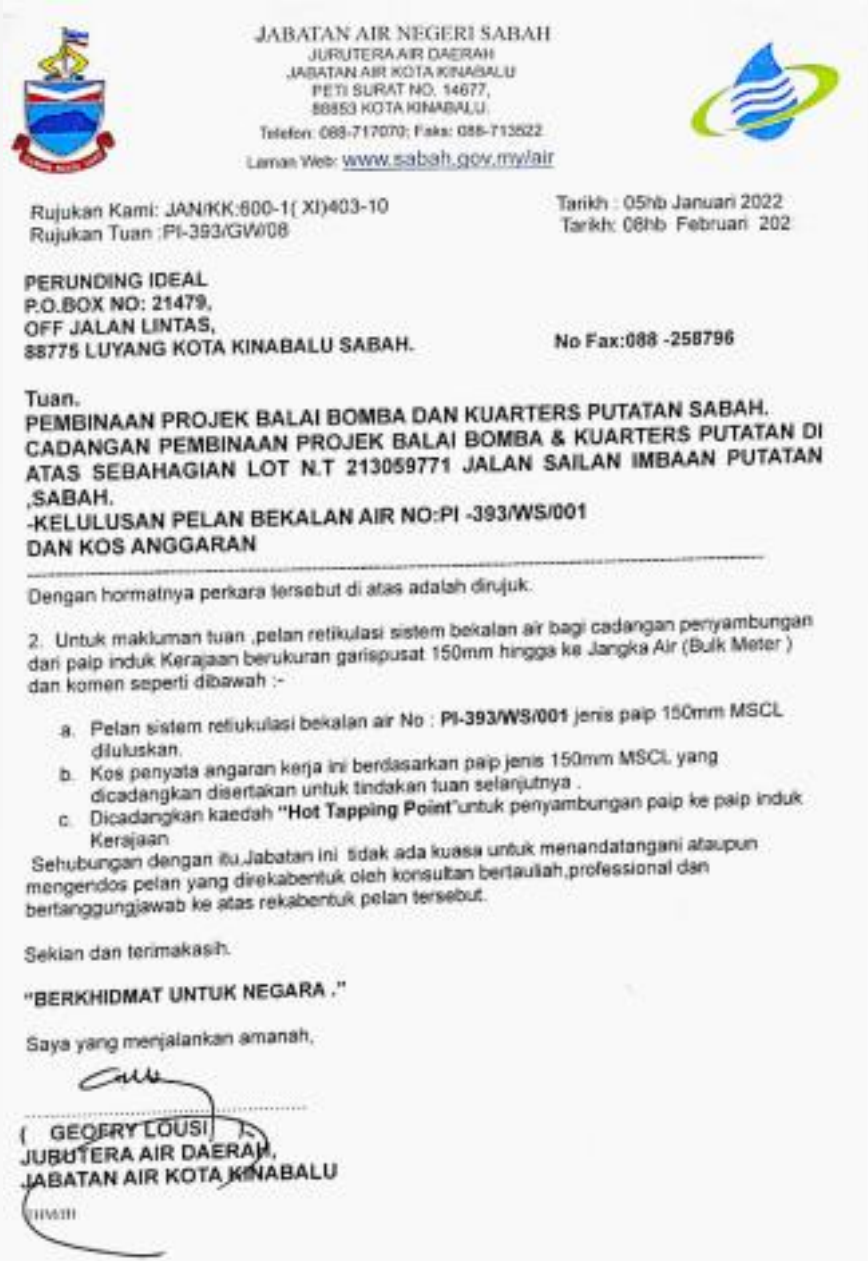
T.Tangan :
Nama :
Tarikh :

"SABAH MAJU JAYA"

Surat Ulasan JANS

Tiada halangan selepas 2nd submission.

Surat Kelulusan JANS



JABATAN AIR NEGERI SABAH
JURUTERA AIR DAERAH
JABATAN AIR KOTA KINABALU
PETI SURAT NO. 14677,
88853 KOTA KINABALU.
Telefon: 088-717070; Faks: 088-713522
Laman Web: www.sabah.gov.my/air

Rujukan Kami: JAN/KK:600-1(XI)403-10
Rujukan Tuan :PI-393/GW/08

Tarikh : 05hb Januari 2022
Tarikh: 06hb Februari 202

PERUNDING IDEAL
P.O.BOX NO: 21479,
OFF JALAN LINTAS,
88775 LUYANG KOTA KINABALU SABAH.

No Fax:088 -258796

Tuan.
PEMBINAAN PROJEK BALAI BOMBA DAN KUARTERS PUTATAN SABAH.
CADANGAN PEMBINAAN PROJEK BALAI BOMBA & KUARTERS PUTATAN DI ATAS SEBAHAGIAN LOT N.T 213059771 JALAN SAILAN IMBAAN PUTATAN ,SABAH.
-KELULUSAN PELAN BEKALAN AIR NO:PI -393/WS/001
DAN KOS ANGGARAN

Dengan hormatnya perkara tersebut di atas adalah dirujuk.

2. Untuk makluman tuan ,pelan retikulasi sistem bekalan air bagi cadangan penyambungan dari paip induk Kerajaan berukuran garispusat 150mm hingga ke Jangka Air (Bulk Meter) dan komen seperti dibawah :-

a. Pelan sistem retiukulasi bekalan air No : **PI-393/WS/001** jenis paip 150mm MSCL diluluskan.
b. Kos penyata angaran kerja ini berdasarkan paip jenis 150mm MSCL yang dicadangkan disertakan untuk tindakan tuan selanjutnya .
c. Dicadangkan kaedah **"Hot Tapping Point"**untuk penyambungan paip ke paip induk Kerajaan

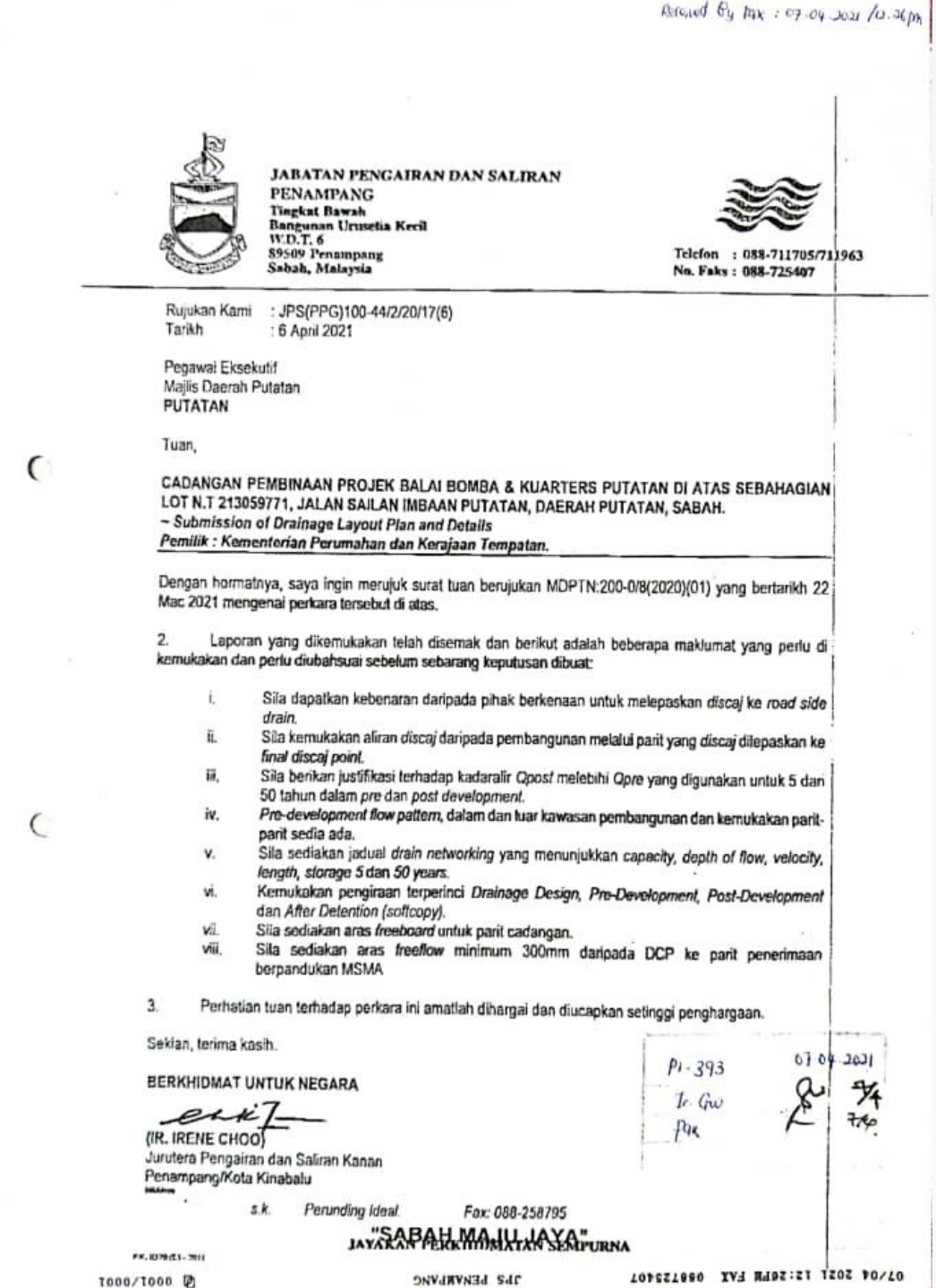
Sehubungan dengan itu,Jabatan ini tidak ada kuasa untuk menandatangani ataupun mengendos pelan yang direkabentuk oleh konsultan bertauliah,professional dan bertanggungjawab ke atas rekabentuk pelan tersebut.

Sekian dan terimakasih.

"BERKHIDMAT UNTUK NEGARA ."

Saya yang menjalankan amanah,

(GEOFFY LOUSI)
JURUTERA AIR DAERAH,
JABATAN AIR KOTA KINABALU



Received By Fax : 07.04.2021 12.26pm

JABATAN PENGAIRAN DAN SALIRAN
PENAMPANG
Tingkat Bawah
Bangunan Urusetia Kecil
W.D.T. 6
89509 Penampang
Sabah, Malaysia

Telefon : 088-711705/711963
No. Faks : 088-725407

Rujukan Kami : JPS(PPG)100-44/2/20/17(6)
Tarikh : 6 April 2021

Pegawai Eksekutif
Majlis Daerah Putatan
PUTATAN

Tuan,

CADANGAN PEMBINAAN PROJEK BALAI BOMBA & KUARTERS PUTATAN DI ATAS SEBAHAGIAN LOT N.T 213059771, JALAN SAILAN IMBAAN PUTATAN, DAERAH PUTATAN, SABAH.
~ Submission of Drainage Layout Plan and Details
Pemilik : Kementerian Perumahan dan Kerajaan Tempatan.

Dengan hormatnya, saya ingin merujuk surat tuan berujukan MDPTN:200-0/8(2020)(01) yang bertarikh 22 Mac 2021 mengenai perkara tersebut di atas.

2. Laporan yang dikemukakan telah disemak dan berikut adalah beberapa maklumat yang perlu di kemukakan dan perlu diubahsuai sebelum sebarang keputusan dibuat:

i. Sila dapatkan kebenaran daripada pihak berkenaan untuk melepaskan *discaj* ke *road side drain.*
ii. Sila kemukakan aliran *discaj* daripada pembangunan melalui parit yang *discaj* dilepaskan ke *final discaj point.*
iii. Sila berikan justifikasi terhadap kadaralir *Qpost* melebihi *Qpre* yang digunakan untuk 5 dan 50 tahun dalam *pre* dan *post development.*
iv. *Pre-development flow pattern,* dalam dan luar kawasan pembangunan dan kemukakan parit-parit sedia ada.
v. Sila sediakan jadual *drain networking* yang menunjukkan *capacity, depth of flow, velocity, length, storage 5* dan *50 years.*
vi. Kemukakan pengiraan terperinci *Drainage Design, Pre-Development, Post-Development* dan *After Detention (softcopy).*
vii. Sila sediakan aras *freeboard* untuk parit cadangan.
viii. Sila sediakan aras *freeflow* minimum 300mm daripada DCP ke parit penerimaan berpandukan MSMA

3. Perhatian tuan terhadap perkara ini amatlah dihargai dan diucapkan setinggi penghargaan.

Sekian, terima kasih.

BERKHIDMAT UNTUK NEGARA

(IR. IRENE CHOO)
Jurutera Pengairan dan Saliran Kanan
Penampang/Kota Kinabalu

Pi-393
Ir. Gw
Pak
07.04.2021

s.k. *Perunding Ideal* *Fax: 088-258795*

"SABAH MAJU JAYA"
JAYAKAN PERKHIDMATAN SEMPURNA

07/04 2021 12:26PM FAX 088725407 JPS PENAMPANG 0001/0001

Surat Ulasan JPS (1st Submission)

1. Sila dapatkan kebenaran daripada pihak berkenaan untuk melepaskan discaj ke road side drain.
2. Sila kemukakan aliran discaj daripada pembangunan melalui parit yang discaj dilepaskan ke final discaj point.
3. Sila berikan justifikasi terhadap kadaralir Qpost melebihi Qpre yang digunakan untuk 5 dan 50 tahun dalam pre dan post development.
4. Pre-development flow pattern, dalam dan luar kawasan pembangunan dan kemukakan parit-parit sedia ada.
5. Sila sediakan jadual drain networking yang menunjukkan capacity, depth of flow, velocity, length, storage 5 dan 50 years.

Received By Fax : 07.04.2021 12.26pm

JABATAN PENGAIRAN DAN SALIRAN
PENAMPANG
Tingkat Bawah
Bangunan Urusetia Kecil
W.D.T. 6
89509 Penampang
Sabah, Malaysia

Telefon : 088-711705/711963
No. Faks : 088-725407

Rujukan Kami : JPS(PPG)100-44/2/20/17(6)
Tarikh : 6 April 2021

Pegawai Eksekutif
Majlis Daerah Putatan
PUTATAN

Tuan,

CADANGAN PEMBINAAN PROJEK BALAI BOMBA & KUARTERS PUTATAN DI ATAS SEBAHAGIAN LOT N.T 213059771, JALAN SAILAN IMBAAN PUTATAN, DAERAH PUTATAN, SABAH.
~ Submission of Drainage Layout Plan and Details
Pemilik : Kementerian Perumahan dan Kerajaan Tempatan.

Dengan hormatnya, saya ingin merujuk surat tuan berujukan MDPTN:200-0/8(2020)(01) yang bertarikh 22 Mac 2021 mengenai perkara tersebut di atas.

2. Laporan yang dikemukakan telah disemak dan berikut adalah beberapa maklumat yang perlu di kemukakan dan perlu diubahsuai sebelum sebarang keputusan dibuat:

i. Sila dapatkan kebenaran daripada pihak berkenaan untuk melepaskan *discaj* ke *road side drain.*
ii. Sila kemukakan aliran *discaj* daripada pembangunan melalui parit yang *discaj* dilepaskan ke *final discaj point.*
iii. Sila berikan justifikasi terhadap kadaralir *Qpost* melebihi *Qpre* yang digunakan untuk 5 dan 50 tahun dalam *pre* dan *post development.*
iv. *Pre-development flow pattern,* dalam dan luar kawasan pembangunan dan kemukakan parit-parit sedia ada.
v. Sila sediakan jadual *drain networking* yang menunjukkan *capacity, depth of flow, velocity, length, storage 5* dan *50 years.*
vi. Kemukakan pengiraan terperinci *Drainage Design, Pre-Development, Post-Development* dan *After Detention (softcopy).*
vii. Sila sediakan aras *freeboard* untuk parit cadangan.
viii. Sila sediakan aras *freeflow* minimum 300mm daripada DCP ke parit penerimaan berpandukan MSMA

3. Perhatian tuan terhadap perkara ini amatlah dihargai dan diucapkan setinggi penghargaan.

Sekian, terima kasih.

BERKHIDMAT UNTUK NEGARA

(IR. IRENE CHOO)
Jurutera Pengairan dan Saliran Kanan
Penampang/Kota Kinabalu

Pi-393
Ir. Gw
Pak
07.04.2021

s.k. *Perunding Ideal* *Fax: 088-258795*

"SABAH MAJU JAYA"
JAYAKAN PERKHIDMATAN SEMPURNA

07/04 2021 12:26PM FAX 088725407 JPS PENAMPANG 0001/0001

6. Kemukakan pengiraan terperinci Drainage Design, Pre-Development, Post-Development dan After Detention (softcopy)
7. Sila sediaklan aras freeboard untuk parit cadangan.
8. Sila sediakan aras freeflow minimum 300mm daripada DCP ke parit penerimaan berpandukan MSMA.



JABATAN PENGAIRAN DAN SALIRAN
PENAMPANG
Tingkat Bawah
Bangunan Urusetia Kecil
W.D.T. 6
89509 Penampang
Sabah, Malaysia

Telefon : 088-711705/711963
No. Faks : 088-725407

Rujukan Kami : JPS(PPG)100-44/2/20/17(14)
Tarikh : 29 Oktober 2021

Pegawai Eksekutif
Majlis Daerah Putatan
PUTATAN

Tuan,

CADANGAN PROJEK PEMBINAAN BALAI BOMBA & KUARTERS PUTATAN DI ATAS SEBAHAGIAN LOT N.T 213059771, JALAN SAILAN IMBAAN PUTATAN, DAERAH PUTATAN, SABAH.
~ Submission of revised drainage and layout plan details.

Dengan hormatnya, saya ingin merujuk surat tuan berujukan MDPTN(D):200-0(2020)/8/9 yang bertarikh 25 Oktober 2021 mengenai perkara tersebut di atas.

2. Untuk makluman tuan, laporan yang dikemukakan telah disemak dan berikut adalah beberapa maklumat yang perlu di kemukakan dan perlu diubahsuai sebelum sebarang keputusan dibuat:

i. Sila sediakan *Wier* dalam rekabentuk *Detention Pond* dan kedudukan *Trash Screen* hendaklah berada di bawah *Wier*.
ii. Sila berikan justifikasi berkenaan level dalam rekabentuk *Detention Pond* untuk *5 and 50 years ARI* adalah tidak sama seperti dalam report MSMA yang telah dikemukakan.

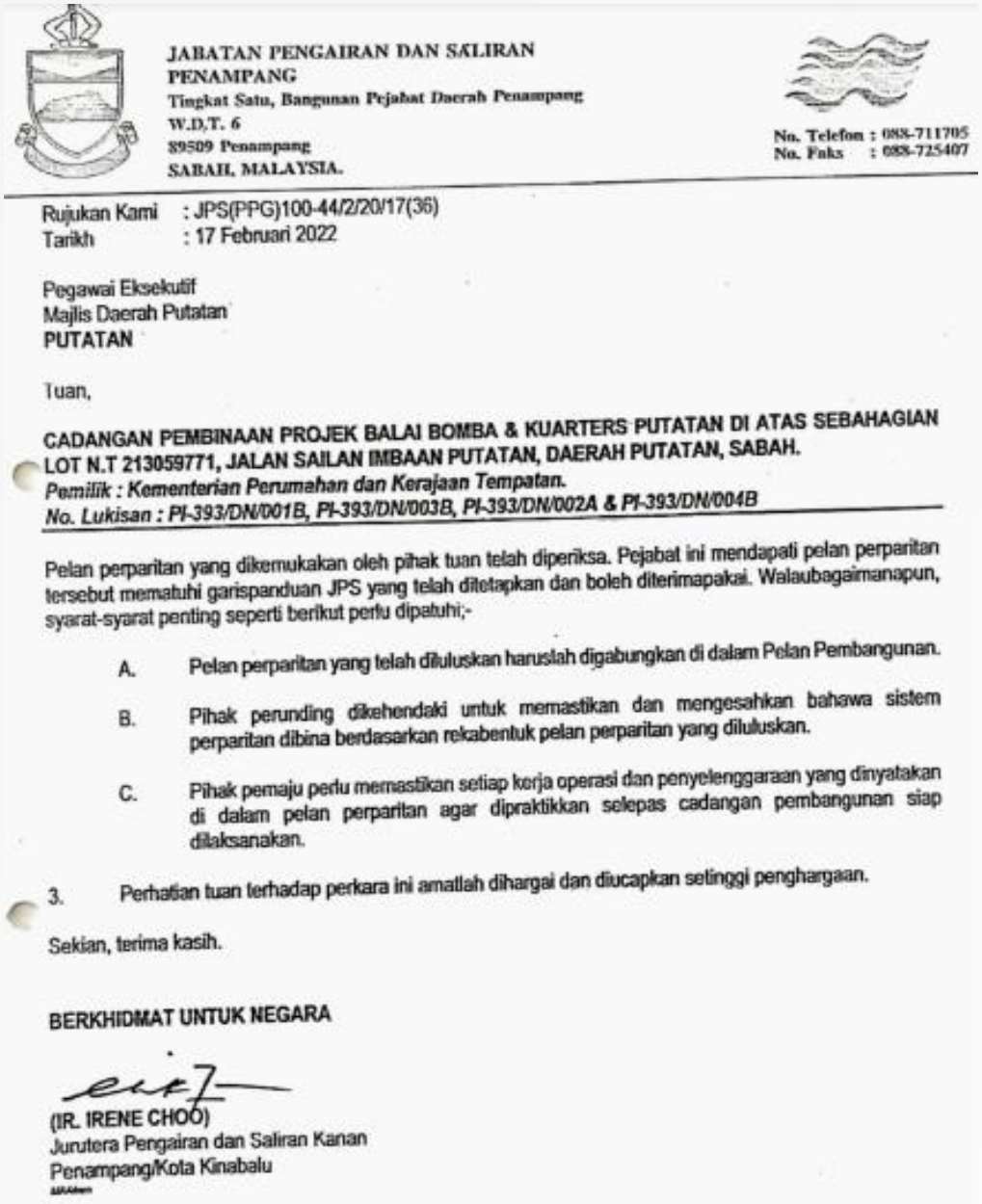
3. Perhatian tuan terhadap perkara ini amatlah dihargai dan diucapkan setinggi penghargaan.

Sekian, terima kasih.

Surat Ulasan JPS (2nd Submission)

1. Sila sediakan Wier dalam rekabentuk Detention Pond dan kedudukan Trash Screen hendaklah berada dibawah Wier.
2. Sila berikan justifikasi berkenaan level dalam rekabentuk Detention Pond untuk 5 and 50 years ARI adalah tidak sama seperti dalam report MSMA yang telah dikemukakan.

Surat Kelulusan JPS



JABATAN PENGAIRAN DAN SALIRAN
PENAMPANG
Tingkat Satu, Bangunan Pejabat Daerah Penampang
W.D.T. 6
89509 Penampang
SABAH, MALAYSIA.

No. Telefon : 088-711705
No. Faks : 088-725407

Rujukan Kami : JPS(PPG)100-44/2/20/17(36)
Tarikh : 17 Februari 2022

Pegawai Eksekutif
Majlis Daerah Putatan
PUTATAN

Tuan,

CADANGAN PEMBINAAN PROJEK BALAI BOMBA & KUARTERS PUTATAN DI ATAS SEBAHAGIAN LOT N.T 213059771, JALAN SAILAN IMBAAN PUTATAN, DAERAH PUTATAN, SABAH.
Pemilik : Kementerian Perumahan dan Kerajaan Tempatan.
No. Lukisan : PI-393/DN/001B, PI-393/DN/003B, PI-393/DN/002A & PI-393/DN/004B

Pelan perparitan yang dikemukakan oleh pihak tuan telah diperiksa. Pejabat ini mendapati pelan perparitan tersebut mematuhi garispanduan JPS yang telah ditetapkan dan boleh diterimapakai. Walaubagaimanapun, syarat-syarat penting seperti berikut perlu dipatuhi;-

A. Pelan perparitan yang telah diluluskan haruslah digabungkan di dalam Pelan Pembangunan.

B. Pihak perunding dikehendaki untuk memastikan dan mengesahkan bahawa sistem perparitan dibina berdasarkan rekabentuk pelan perparitan yang diluluskan.

C. Pihak pemaju perlu memastikan setiap kerja operasi dan penyelenggaraan yang dinyatakan di dalam pelan perparitan agar dipraktikkan selepas cadangan pembangunan siap dilaksanakan.

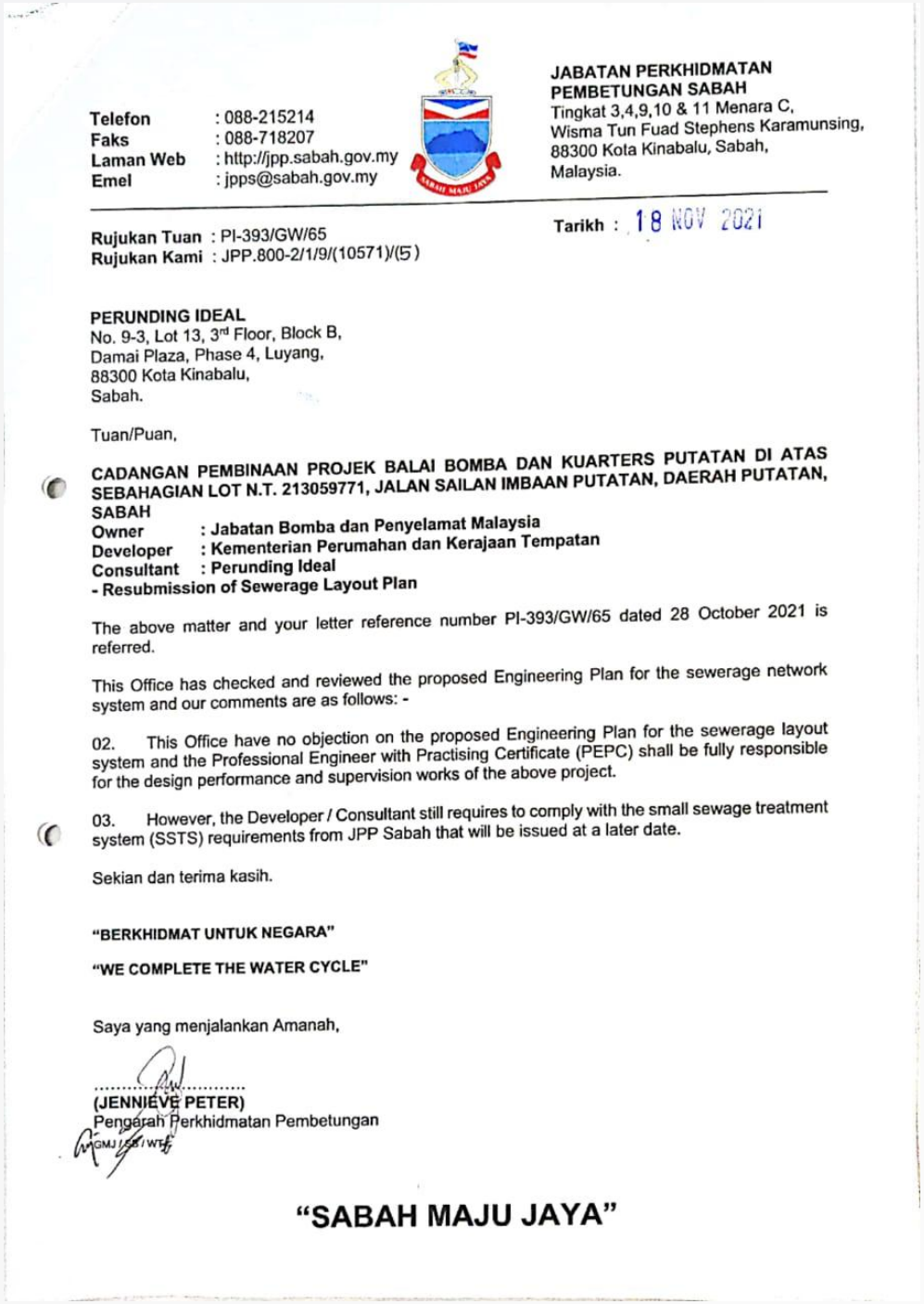
3. Perhatian tuan terhadap perkara ini amatlah dihargai dan diucapkan setinggi penghargaan.

Sekian, terima kasih.

BERKHIDMAT UNTUK NEGARA

(IR. IRENE CHOO)
Jurutera Pengairan dan Saliran Kanan
Penampang/Kota Kinabalu

Surat Ulasan JPP (2nd Submission)



Telefon : 088-215214
Faks : 088-718207
Laman Web : http://jpp.sabah.gov.my
Emel : jpps@sabah.gov.my

JABATAN PERKHIDMATAN PEMBETUNGAN SABAH
Tingkat 3,4,9,10 & 11 Menara C,
Wisma Tun Fuad Stephens Karamunsing,
88300 Kota Kinabalu, Sabah,
Malaysia.

Rujukan Tuan : PI-393/GW/65
Rujukan Kami : JPP.800-2/1/9/(10571)/(5)

Tarikh : 18 NOV 2021

PERUNDING IDEAL
No. 9-3, Lot 13, 3rd Floor, Block B,
Damai Plaza, Phase 4, Luyang,
88300 Kota Kinabalu,
Sabah.

Tuan/Puan,

CADANGAN PEMBINAAN PROJEK BALAI BOMBA DAN KUARTERS PUTATAN DI ATAS SEBAHAGIAN LOT N.T. 213059771, JALAN SAILAN IMBAAN PUTATAN, DAERAH PUTATAN, SABAH
Owner : Jabatan Bomba dan Penyelamat Malaysia
Developer : Kementerian Perumahan dan Kerajaan Tempatan
Consultant : Perunding Ideal
- Resubmission of Sewerage Layout Plan

The above matter and your letter reference number PI-393/GW/65 dated 28 October 2021 is referred.

This Office has checked and reviewed the proposed Engineering Plan for the sewerage network system and our comments are as follows: -

02. This Office have no objection on the proposed Engineering Plan for the sewerage layout system and the Professional Engineer with Practising Certificate (PEPC) shall be fully responsible for the design performance and supervision works of the above project.

03. However, the Developer / Consultant still requires to comply with the small sewage treatment system (SSTS) requirements from JPP Sabah that will be issued at a later date.

Sekian dan terima kasih.

"BERKHIDMAT UNTUK NEGARA"

"WE COMPLETE THE WATER CYCLE"

Saya yang menjalankan Amanah,

.....
(JENNIEVE PETER)
Pengarah Perkhidmatan Pembetungan

"SABAH MAJU JAYA"

Ulasan JPP:
Tiada halangan.
Perubahan yang telah buat untuk mematuhi Ulasan JPP:
1. Omitted manhole near Rumah Sampah.
2. Omitted CI steps in manhole.
3. Vitrified Clay Pipe changed to 225mm inner diameter.
4. SSTS requirements to comply.

METHOD OF STATEMENT

METHOD OF STATEMENT	SURAT KONTRAKTOR	SURAT PERUNDING	SURAT KPKT	STATUS
PLATE BEARING TEST (Dynamic Engineering)	MTR/KPKT/JBPM/2021/023 Date: 01/04/21	PI-393/GW/17 Date: 01/04/21	KPKT/(CPPP)WSS/600-3/88/2/(3)(10) Date: 08/04/21	Lulus.
PLATE BEARING TEST (GTS Lab)	MTR/KPKT/JBPM/2021/030 Date: 14/04/21	PI-393/GW/23 Date: 16/04/21	KPKT/(CPPP)WSS/600-3/88/2/(3)(11) Date: 20/04/21	Lulus
In-situ California Bearing Ratio dan Field Density Test (GTS Lab)	MTR/KPKT/JBPM/2021/048 Date: 17/06/21	PI-393/GW/41 Date: 21/06/21	KPKT/(CPPP)/WSS/600-3/88/2/(3)Klt.2(16) Date: 21/07/21	Lulus
Building Construction and Water Reticulation Work	MTR/KPKT/JBPM/2021/082 Date: 06/09/21	PI-393/GW/53 Date: 13/09/21	KPKT/(CPPP)/WSS/600-3/88/2/(3)Klt.2(28) Date: 24/09/21	Lulus
Small Sewerage Treatment System (SSTS)	MTR/KPKT/JBPM/2021/156 Date: 17/11/21	PI-393/GW/73 Date: 22/11/21	KPKT/(CPPP)/WSS/600-3/88/2(3)klt.3(8) Date: 19/11/21	Lulus.

METHOD OF STATEMENT

METHOD OF STATEMENT	SURAT KONTRAKTOR	SURAT PERUNDING	SURAT KPKT	STATUS
Sewerage Work	MTR/KPKT/JBPM/2021/166 Date: 01/12/21	PI-393/GW/81 Date: 08/12/21		Lulus

STATUS PERMOHONAN PINDAAN LUKISAN PEMBINAAN

BIL	LUKISAN	TARIKH PERMOHONAN	STATUS
1.	Water Supply Layout Plan PI-393/WS/001A	18/10/2021	Tidak lagi diperlukan.
2.	Water Supply Details PI-393/WS/002A	18/10/2021	
3.	Road Layout Plan PI-393/RD/001 Rev.1	17/11/2021	Lulus. 23/11/21 Pengemukaan Pengemukaan Lukisan Pembinaan ke UKAS
4.	Drainage Layout Plan PI-393/DN/001 Rev.1	17/11/2021	
5.	Sewerage Layout Plan PI-393/SW/001 Rev.1	17/11/2021	
6.	Water Supply Layout Plan PI-393/WS/001 Rev.1	17/11/2021	
7.	Tempat Letak Kereta (Bumbung) PI-393/TLK/001 Rev.1	17/11/2021	

[SAMB.] STATUS PERMOHONAN PINDAAN LUKISAN PEMBINAAN

BIL	LUKISAN	TARIKH PERMOHONAN	STATUS
8.	Sewerage Layout Plan PI-393/SW/001 Rev.A	05/01/2022	Lulus. 15/02/2022 Pengemukaan Pengemukaan Lukisan Pembinaan ke UKAS
9.	Sewerage Details PI-393/SW/002 Rev.A	05/01/2022	

STATUS KELULUSAN BAHAN BINAAN C&S

BAHAN BINAAN	SURAT KONTRAKTOR	SURAT PERUNDING	SURAT KPKT	STATUS
Structure				
Concrete Ready Mix Supplier	MTR/KPKT/JBPM /2021/022 Date: 31/03/21	PI-393/GW/18 Date: 01/04/21	KPKT/(CPPP)WSS/ 600-3/88/2/(3)(20) Date: 27/04/21	Lulus.
Concrete Mix Design and Trial Mix (Leppo Concrete)	1.MTR/KPKT/JBP M/2021/019 Date: 27/03/21 2.MTR/KPKT/JBP M/2021/031 Date: 14/04/21	1.PI-393/GW/15 Date: 30/03/21	KPKT/(CPPP)WSS/ 600-3/88/2/(3)(20) Date: 27/04/21	Lulus. Trial mix diperlukan
Rebars Supplier & Mill Certificate (Sabah wiremesh, Cut and Bend Sdn Bhd)	MTR/KPKT/JBPM /2021/029 Date: 13/04/21	PI-393/GW/21 Date: 14/04/21 PI-393/GW/36 Date: 25/05/21	KPKT/(CPPP)WSS/ 600-3/88/2/(3)klt.2(15) Date: 11/06/21	Lulus.
Rebars Supplier & Mill Certificate (Steel Industries)	MTR/KPKT/JBPM /2021/031 Date: 23/04/21	PI-393/GW/26 Date: 27/04/21	KPKT/(CPPP)WSS/ 600-3/88/2/(3)klt.2 (19) Date: 04/05/21	Lulus.

[SAMB.]STATUS KELULUSAN BAHAN BINAAN C&S

BAHAN BINAAN	SURAT KONTRAKTOR	SURAT PERUNDING	SURAT KPKT	STATUS
Structure				
Concrete Mix Design and Trial Mix (Kota Mix)	MTR/KPKT/JBPM /2021/038 Date: 18/05/21	PI-393/GW/35 Date: 19/05/21	KPKT/(CPPP) WSS/600-3/88/2/(3)klt.2(14) Date: 10/06/21	Lulus
Hollow Section Speficiation				
Roof Truss & Purlin Supplier (Rumah pam & Rumah Sampah)	MTR/KPKT/JBPM /2021/165 Date: 30/11/21	PI-393/GW/83 Date: 20/12/21	KPKT.600-3/88/2 (47) Date: 11/01/22	dokumen sokongan belum lengkap 1. checklist 2. Sijil PE 3.Installation Team Chart 4. Softcopy
Roof Truss & Purlin Supplier (Balai Bomba & kuarters)	MTR/KPKT/JBPM /2022/227 Date: 17/05/22			

[SAMB.] STATUS KELULUSAN BAHAN BINAAN C&S

BAHAN BINAAN	SURAT KONTRAKTOR	SURAT PERUNDING	SURAT KPKT	STATUS
Civil				
Sewerage				
Small Sewerage Treatment System (SSTS)	MTR/KPKT/JBPM /2021/134 Date: 01/11/21	PI-393/GW/66 Date: 05/11/21	KPKT/(CPPP)WSS/600-3/88/2/(3)Klt.3(8) Date: 19/11/21	Lulus
Vitrified Clay Pipe	MTR/KPKT/JBPM /2021/118 Date: 08/10/21	PI-393/GW/63 Date: 14/10/21	KPKT/(CPPP)WSS/600-3/88/2/(3)Klt.3(6) Date: 9/11/21	Lulus.
Concrete Circular Manholes	MTR/KPKT/JBPM /2021/168 Date: 01/12/21	PI-393/GW/80 Date: 08/12/21		Lulus.
Drainage				
R.C Pipe Culverts	MTR/KPKT/JBPM /2021/025 Date: 07/04/21	PI-393/GW/19 Date: 08/04/21	KPKT/(CPPP)WSS/600-3/88/2/(3)(18) Date: 27/04/21	Lulus. Magisan Sdn Bhd

[SAMB.] STATUS KELULUSAN BAHAN BINAAN C&S

BAHAN BINAAN	SURAT KONTRAKTOR	SURAT PERUNDING	SURAT KPKT	STATUS
Civil				
Water Supply				
Bulk Water Meter, Y-Strainer, Sluice Valve	MTR/KPKT/JBPM/2021/118 Date: 08/10/21	PI-393/GW/63 Date: 14/10/21	KPKT/(CPPP)WSS/600-3/88/2/(3)Klt.3(6) Date: 9/11/21	Lulus.
MSCL Pipe,Fittings & Fire Hydrant	MTR/KPKT/JBPM/2021/118 Date: 08/10/21	PI-393/GW/63 Date: 14/10/21	KPKT/(CPPP)WSS/600-3/88/2/(3)Klt.3(6) Date: 9/11/21	Lulus.
PVC-O Pipe	MTR/KPKT/JBPM/2021/150 Date: 16/11/21	PI-393/GW/69 Date: 16/11/21	KPKT/(CPPP)WSS/600-3/88/2/(3)Klt.3(16) Date: 10/12/21	Lulus
Rainwater Harvesting Tank	MTR/KPKT/JBPM/2021/199 Date:	PI-393/GW/98 Date: 22/03/21	KPKT/(CPPP)WSS/600-3/88/2/(3)Klt.4(3) Date: 04/04/22	Lulus

[SAMB.] STATUS KELULUSAN BAHAN BINAAN C&S

BAHAN BINAAN	SURAT KONTRAKTOR	SURAT PERUNDING	SURAT KPKT	STATUS
Road				
Subgrade and Base Course Supplier & Aggregate Test	MTR/KPKT/JBPM /2021/021 Date: 31/03/21	PI-393/GW/16 Date: 31/03/21	KPKT/(CPPP)WSS/600-3/88/2/(3)(17) Date: 27/04/21	Lulus
Subgrade & Base Course CBR Test				
Asphalt supplier & Design Mix	MTR/KPKT/JBPM /2021/221 Date: 31/03/22	PI-393/GW/103 Date: 14/04/22		20/04/22 Telah hantar ke W6.
Road Kerb Supplier	MTR/KPKT/JBPM /2021/094 Date: 13/09/21	PI-393/GW/61 Date: 29/09/21	KPKT/(CPPP)WSS/600-3/88/2/(3)Klt.2(31) Date: 20/10/21	Lulus
Termoplastic Road Marking				

UJIAN-UJIAN SKOP C&S TERKINI

UJIAN	DATE	STATUS
PLATE BEARING TEST	20/04/2021	LULUS
CONCRETE TRIAL MIX (Leppo Concrete)	04/05/2021	LULUS
CONCRETE TRIAL MIX (Kota Mix)	16/08/2021	LULUS

SUMMARY OF CONCRETE CUBE RESULTS

No	Date Casting	Cube Set No	Date Tested	Age (Days)	Weight (kg)	Density (Mg/m3)	Load (kN)	Strength (N/mm2)	Average Strength (N/mm2)	Concrete Grade	Slump (mm)	Concreting Location/Structure/Chainage	Concrete Supplier
1	27/5/2021	13-15	3/06/2021	7	8000	2.373	690	30.67	30.89	G35N	150	PUMP HOUSE/PAD FOOTING	LEPPO CONCRETE SDN BHD
					8080	2.397	700	31.11					
					8080	2.397	695	30.89					
		16-18	25/8/2021	28	8100	2.403	1060	47.11	49.56		150		
					8120	2.409	1140	50.67					
					8120	2.409	1145	50.89					
2	27/5/2021	19-21	3/06/2021	7	8090	2.4	805	35.78	35.63	G35N	150	BALAI BOMBA/FOOTINGS	LEPPO CONCRETE SDN BHD
					8000	2.373	800	35.56					
					8050	2.388	800	35.56					
		22-24	25/8/2021	28	8140	2.415	1155	51.33	51.41		150		
					8120	2.409	1150	51.11					
					8140	2.415	1165	51.78					
3	9/08/2021	43-45	26/8/2021	7	8100	2.403	850	37.78	37.78	G35N	150	KUARTERS/FOOTINGS	LEPPO CONCRETE SDN BHD
					8160	2.421	855	38.00					
					8160	2.421	845	37.56					
		46-48	6/09/2021	28	7920	2.347	860	38.22	38.37		140		
					7750	2.296	880	39.11					
					8050	2.385	850	37.78					
4	19/08/2021	61-63	26/8/2021	7	8040	2.385	800	35.56	35.56	G35N	150	KUARTERS/FOOTINGS	LEPPO CONCRETE SDN BHD
					8020	2.379	805	35.78					
					8100	2.403	795	35.33					
		64-66	18/9/2021	28	8040	2.385	1075	47.78	47.48		130		
					8120	2.409	1060	47.11					
					8060	2.391	1070	47.56					
5	7/08/2021	37-39	26/8/2021	7	8140	2.415	880	39.11	38.81	G35N	170	BALAI BOMBA/FOOTINGS	LEPPO CONCRETE SDN BHD
					8080	2.397	865	38.44					
					8140	2.415	875	38.89					
		40-42	3/09/2021	28	7980	2.367	1025	45.56	46.37		170		
					8020	2.379	1065	47.33					
					8260	2.451	1040	46.22					

No	Date Casting	Cube Set No	Date Tested	Age (Days)	Weight (kg)	Density (Mg/m3)	Load (kN)	Strength (N/mm2)	Average Strength (N/mm2)	Concrete Grade	Slump (mm)	Concreting Location/Structure/Chainage	Concrete Supplier	Remarks
6	9/08/2021	43-45	26/8/2021	7	8100	2.403	850	37.78	37.78	G35N	170	BALAI BOMBA/FOOTINGS	LEPPO CONCRETE SDN BHD	
					8160	2.421	855	38.00						
					8160	2.421	845	37.56						
		46-48	6/09/2021	28	8100	2.403	1070	47.56	47.40		120			
					8000	2.373	1065	47.33						
					8120	2.12	1065	47.33						
7	6/08/2021	31-33	26/8/2021	7	8160	2.421	870	38.67	38.59	G35N	160	KUARTERS/FOOTINGS	LEPPO CONCRETE SDN BHD	
					8380	2.486	865	38.44						
					8120	2.409	870	38.67						
		34-36	4/09/2021	28	8020	2.379	1080	48.00	47.70		160			
					8080	2.397	1070	47.56						
					8040	2.385	1070	47.56						
8	14/8/2021	49-51	26/8/2021	7	8100	2.403	835	37.11	37.11	G35N	170	KUARTERS/FOOTINGS	LEPPO CONCRETE SDN BHD	
					8020	2.379	835	37.11						
					8020	2.379	835	37.11						
		52-54	11/09/2021	28	8120	2.409	1080	48.00	48.00		170			
					8040	2.385	1075	47.78						
					8100	2.403	1085	48.22						
	29/5/2021	25-27	26/08/2021	7	8120	2.409	1150	51.11	51.41	G35N	150	BALAI BOMBA/FOOTINGS	LEPPO CONCRETE SDN BHD	
					8140	2.415	1160	51.56						
					8160	2.421	1160	51.56						
		28-30	26/8/2021	28	8060	2.391	1170	52.00	52.07		150			
					8080	2.397	1170	52.00						
					8060	2.391	1175	52.22						
9	18/8/2021	55-57	26/8/2021	7	8080	2.397	820	36.44	36.15	G35N	160	BALAI BOMBA/FOOTINGS	LEPPO CONCRETE SDN BHD	
					8020	2.379	815	36.22						
					8000	2.373	805	35.78						
		58-60	18/9/2021	28	8100	2.403	1070	47.56	47.63		160			
					8000	2.373	1070	47.56						
					8020	2.379	1075	47.78						
10	25/8/2021	73-75	1/06/2021	7	8010	2.376	800	35.56	35.33	G35N	150	KUARTERS/FOOTINGS & TOWER/RAFT FOUNDATION	LEPPO CONCRETE SDN BHD	
					8000	2.373	790	35.11						
					7940	2.356	795	35.33						
		82-84	22/9/2021	28	8060	2.391	1060	47.11	47.41		170			
					8100	2.403	1075	47.78						
					8010	2.376	1065	47.33						

No	Date Casting	Cube Set No	Date Tested	Age (Days)	Weight (kg)	Density (Mg/m3)	Load (kN)	Strength (N/mm2)	Average Strength (N/mm2)	Concrete Grade	Slump (mm)	Concreting Location/Structure/Chainage	Concrete Supplier
11	26/8/2021	85-87	2/09/2021	7	7960	2.362	795	35.33	35.19	G35N	150	KUARTERS/FOOTINGS	LEPPO CONCRETE SDN BHD
					8100	2.403	790	35.11					
					8080	2.397	790	35.11					
		88-90	23/9/2021	28	8000	2.373	1065	47.33	47.26		150		
					8120	2.409	1055	46.89					
					8000	2.373	1070	47.56					
12	28/8/2021	91-93	4/09/2021	7	8080	2.397	705	31.33	31.19	G30N	170	PUMP HOUSE/ROOF BEAM	LEPPO CONCRETE SDN BHD
					8000	2.373	700	31.11					
					8000	2.373	700	31.11					
		94-96	25/9/2021	28	8010	2.376	960	42.67	42.67		170		
					8000	2.373	970	43.11					
					8020	2.379	950	42.22					
13	11/09/2021	97-99	18/9/2021	7	8020	2.379	690	30.67	30.74	G30N	170	BALAI BOMBA/G. BEAM	LEPPO CONCRETE SDN BHD
					8100	2.403	700	31.11					
					8100	2.403	685	30.44					
		100-102	12/10/2021	28	8040	2.385	950	42.22	42.15		170		
					8000	2.373	950	42.22					
					8080	2.397	945	42.00					
14	13/9/2021	103-105	23/9/2021	7	8120	2.409	690	30.67	30.67	G30N	150	TOWER/COLUMNS & RC WALL	LEPPO CONCRETE SDN BHD
					7980	2.367	680	30.22					
					8100	2.403	700	31.11					
		106-108	12/10/2021	28	8120	2.41	960	42.67	42.44		150		
					8000	2.373	950	42.22					
					8010	2.376	955	42.44					
15	20/9/2021	1,2,3	27/9/2021	7	8320	2.465	775	34.44	33.33	G30N	110	KUARTERS/G. BEAM	KOTAMIX CONCRETE SDN BHD
					8280	2.453	745	33.11					
					8250	2.444	730	32.44					
		1,2,3	18/10/2021	28	8220	2.436	930	41.33	41.56		110		
					8240	2.441	955	42.44					
					8210	2.433	920	40.89					
16	25/9/2021	1,2,3	2/10/2021	7	8320	2.465	775	34.44	33.33	G30N	110	BALAI BOMBA/G. SLAB & TOWER/1ST FLOOR SLAB	KOTAMIX CONCRETE SDN BHD
					8280	2.453	745	33.11					
					8250	2.444	730	32.44					
		1,2,3	23/10/2021	28	8280	2.453	910	40.44	40.59		100		
					8270	2.45	895	39.78					
					8300	2.459	935	41.56					

No	Date Casting	Cube Set No	Date Tested	Age (Days)	Weight (kg)	Density (Mg/m3)	Load (kN)	Strength (N/mm2)	Average Strength (N/mm2)	Concrete Grade	Slump (mm)	Concreting Location/Structure/Chainage	Concrete Supplier
17	28/9/2021	1,2,3	5/10/2021	7	8240	2.441	735	32.67	34.00	G30N	110	KUARTERS/G. SLAB	KOTAMIX CONCRETE SDN BHD
					8280	2.453	775	34.44					
					8290	2.456	785	34.89					
		1,2,3	26/10/2021	28	8250	2.444	885	39.33	39.93		110		
					8280	2.453	915	40.67					
					8250	2.444	895	39.78					
18	1/10/2021	1,2,3	8/10/2021	7	8170	2.421	695	30.89	32.07	G30N	115	BALAI BOMBA/COLUMNS G-1ST FLR	KOTAMIX CONCRETE SDN BHD
					8230	2.439	725	32.22					
					8240	2.441	745	33.11					
		1.2.3	29/10/2021	28	8200	2.43	855	38.00	38.67				
					8220	2.436	875	38.89					
					8220	2.436	880	39.11					
19	11/10/2021	1,2,3	18/10/2021	7	8220	2.436	705	31.33	31.70	G30N	110	KUARTERS/COLUMN G-1ST FLR & TOWER/COLUMN & RC WALL 1ST-2ND FLR	KOTAMIX CONCRETE SDN BHD
					8190	2.427	700	31.11					
					8250	2.444	735	32.67					
		1,2,3	8/11/2021	28	8230	2.439	895	39.78	40.07		110		
					8240	2.441	910	40.44					
					8230	2.439	900	40.00					
20	11/10/2021	1,2,3	18/10/2021	7	8210	2.433	780	34.67	34.59	G35N	110	RUMAH SAMPAH/FOOTINGS	KOTAMIX CONCRETE SDN BHD
					8230	2.439	790	35.11					
					8190	2.427	765	34.00					
		1,2,3	8/11/2021	28	8240	2.441	990	44.00	43.78		190		
					8210	2.433	950	42.22					
					8260	2.447	1015	45.11					
21	14/10/2021	1,2,3	21/10/2021	7	8200	2.430	710	31.56	31.56	G30N	105	BALAI BOMBA/RAMP & RUMAH SAMPAH/G. BEAM	KOTAMIX CONCRETE SDN BHD
					8190	2.427	695	30.89					
					8220	2.436	725	32.22					
		1,2,3	##########	28	8200	2.430	880	39.11	40.15		185		
					8220	2.436	910	40.44					
					8230	2.439	920	40.89					
22	16/10/2021	1,2,3	23/10/2021	7	8250	2.444	720	32.00	32.22	G30N	110	KOLAH AIR/G. SLAB & RUMAH SAMPAH/G. SLAB	KOTAMIX CONCRETE SDN BHD
					8240	2.441	735	32.67					
					8250	2.444	720	32.00					
		1,2,3	13/11/2021	28	8260	2.447	900	40.00	39.26		110		
					8240	2.441	885	39.33					
					8220	2.436	865	38.44					

No	Date Casting	Cube Set No	Date Tested	Age (Days)	Weight (kg)	Density (kg/m3)	Load (kN)	Stength (N/mm2)	Average Strength (N/mm2)	Concete Grade	Slump (mm)	Concreting Location/Structure/Chainage	Concrete Supplier	Remarks
19	1/10/2021	1,2,3	8/10/2021	7	8170	2.421	695	30.89	32.07	G30N	115	BALAI BOMBA/COLUMNS G-1ST FLR	KOTAMIX CONCRETE SDN BHD	
					8230	2.439	725	32.22						
					8240	2.441	745	33.11						
		1,2,3	29/10/2021	28	8200	2.43	855	38.00	38.67					
					8220	2.436	875	38.89						
					8220	2.436	880	39.11						
20	11/10/2021	1,2,3	18/10/2021	7	8220	2.436	705	31.33	31.70	G30N	110	KUARTERS/COLUMN G-1ST FLR & TOWER/COLUMN & RC WALL 1ST-2ND FLR	KOTAMIX CONCRETE SDN BHD	
					8190	2.427	700	31.11						
					8250	2.444	735	32.67						
		1,2,3	8/11/2021	28	8230	2.439	895	39.78	40.07		110			
					8240	2.441	910	40.44						
					8230	2.439	900	40.00						
21	11/10/2021	1,2,3	18/10/2021	7	8210	2.433	780	34.67	34.59	G35N	110	RUMAH SAMPAH/FOOTINGS	KOTAMIX CONCRETE SDN BHD	
					8230	2.439	790	35.11						
					8190	2.427	765	34.00						
		1,2,3	8/11/2021	28	8240	2.441	990	44.00	43.78		190			
					8210	2.433	950	42.22						
					8260	2.447	1015	45.11						
22	14/10/2021	1,2,3	21/10/2021	7	8200	2.430	710	31.56	31.56	G30N	105	BALAI BOMBA/RAMP & RUMAH SAMPAH/G. BEAM	KOTAMIX CONCRETE SDN BHD	
					8190	2.427	695	30.89						
					8220	2.436	725	32.22						
		1,2,3	11/11/2021	28	8200	2.430	880	39.11	40.15		185			
					8220	2.436	910	40.44						
					8230	2.439	920	40.89						
23	16/10/2021	1,2,3	23/10/2021	7	8250	2.444	720	32.00	32.22	G30N	110	KOLAH AIR/G. SLAB & RUMAH SAMPAH/G. SLAB	KOTAMIX CONCRETE SDN BHD	
					8240	2.441	735	32.67						
					8250	2.444	720	32.00						
		1,2,3	13/11/2021	28	8260	2.447	900	40.00	39.26		110			
					8240	2.441	885	39.33						
					8220	2.436	865	38.44						
24	3/11/2021	109-111	13/11/2021	7	8120	2.410	680	30.22	30.51	G30N	150	RUMAH SAMPAH/ROOF BEAM & KOLAH AIR/RC WALL	LEPPO CONCRETE SDN BHD	
					8080	2.397	695	30.89						
					8100	2.403	685	30.44						
		112-114	1/12/2021	28	8000	2.370	960	42.67	42.96		150			
					8040	2.382	970	43.11						
					8040	2.382	970	43.11						
25	12/11/2021	1,2,3	19/11/2021	7	8180	2.424	710	31.56	31.93	G30N	110	BALAI BOMBA/1ST FLOOR SLAB	KOTAMIX CONCRETE SDN BHD	
					8200	2.430	720	32.00						
					8210	2.433	725	32.22						
		1,2,3	10/12/2021	28	8220	2.436	885	39.33	38.81					
					8190	2.427	855	38.00						
					8210	2.433	880	39.11						

No	Date Casting	Cube Set No	Date Tested	Age (Days)	Weight (kg)	Density (Mg/m3)	Load (kN)	Strength (N/mm2)	Average Strength (N/mm2)	Concrete Grade	Slump (mm)	Concreting Location/Structure/Chainage	Concrete Supplier	Remarks
26	16/11/2021	1,2,3	23/11/2021	7	8250	2.444	745	33.11	32.52	G30N	110	KUARTERS/1ST FLR SLAB & RUMAH SAMPAH/RC WALL	KOTA MIX CONCRETE SDN BHD	
					8210	2.433	715	31.78						
					8230	2.439	735	32.67						
		1,2,3	14/12/2021	28	8240	2.441	930	41.33	41.48					
					8260	2.447	945	42.00						
					8230	2.439	925	41.11						
27	20/11/2021	115-117	27/11/2021	7	8010	2.376	695	30.89	31.04	G30N	150	BALAI BOMBA/COLUMNS 1ST-ROOF	LEPPO CONCRETE SDN BHD	
					8100	2.403	700	31.11						
					8000	2.373	700	31.11						
		118-120	18/12/2021	28	8080	2.394	970	43.11	42.89					
					8100	2.400	960	42.67						
					8000	2.370	965	42.89						
28	22/11/2021	127-129	29/11/2021	7	8120	2.406	590	26.22	25.62	G30N	150	KUARTERS/COLUMNS 1ST-ROOF	LEPPO CONCRETE SDN BHD	
					8040	2.382	570	25.33						
					8140	2.412	570	25.33						
		130-132	28/12/2021	28	8100	2.400	970	43.11	42.89		150			
					8120	2.406	960	42.67						
					8100	2.400	965	42.89						
29	26/11/2021	133-135	3/12/2021	7	8230	2.439	590	26.22	25.70	G25N	110	DRAINAGE/450MM & 300MM COVER	KOTA MIX CONCRETE SDN BHD	
					8180	2.424	560	24.89						
					8210	2.433	585	26.00						
		1,2,3	24/12/2021	28	8220	2.436	715	31.78	31.50					
					8230	2.439	725	32.22						
					8200	2.430	685	30.44						
30	29/11/2021	121-123	6/12/2021	7	8080	2.394	570	25.33	25.86	G25N	160	DRAINAGE/600MM CONCEAL	LEPPO CONCRETE SDN BHD	
					8020	2.376	590	26.22						
					8120	2.406	585	26.00						
		124-126	28/12/2021	28	8040	2.385	945	42.00	30.65					
					8000	2.373	950	42.22						
					8010	2.376	945	42.00						
31	1/12/2021	133-135	8/12/2021	7	8000	2.373	590	26.22	25.85	G25N	165	DRAINAGE/450MM & 300MM COVER	LEPPO CONCRETE SDN BHD	
					8010	2.376	560	25.56						
					8000	2.372	585	25.75						
		136-138	29/12/2021	28	8100	2.403	960	42.67	31.20		165			
					8100	2.403	935	41.56						
					8030	2.382	950	42.22						
32	4/12/2021	139-141	11/12/2021	7	8010	2.373	695	30.89	31.11	G30N	150	TOWER/COLUMNS & RC WALL(2ND-3TH)	LEPPO CONCRETE SDN BHD	
					8000	2.370	700	31.11						
					8020	2.376	705	31.33						
		142-144	3/01/2022	28	8040	2.382	970	43.11	42.60		150			
					8010	2.373	955	42.44						
					8010	2.373	950	42.22						

No	Date Casting	Cube Set No	Date Tested	Age (Days)	Weight(kg)	Density (kg/m3)	Load (kN)	Strength (N/mm2)	Average Strength (N/mm2)	Concrete Grade	Slump (mm)	Concreting Location/Structure/Chainage	Concrete Supplier
33	26/11/2021	1,2,3	12/08/2021	7	8230	2439	590	26.22	25.70	G25N	110	DRAINAGE (450&300MM	KDT AMIX CONCRETE SDN BHD
					8280	2454	560	24.89					
					8210	2433	585	26.00					
		1,2,3	24/12/2021	28	8220	2436	715	31.78	31.50				
					8230	2439	725	32.22					
					8200	2430	695	30.44					
34	18/12/2021	168-170	28/12/2021	7	8000	2370	705	31.33	31.11	G30N	165	TOWER / 3RD FLOOR SLAB)	LEPPO CONCRETE SDN BHD
					8160	2418	700	31.11					
					8140	2412	695	30.89					
		171-173	15/1/2022	28	8260	2448	950	42.22	42.52				
					8220	2436	960	42.67					
					8220	2436	960	42.67					
35	5/1/20222	204-206	1/12/2022	7	8000	2370	680	30.22	30.44	G30N	165	BALAI BOMBA/ROOF BEAM(1-2,AH)	LEPPO CONCRETE SDN BHD
					8000	2370	685	30.44					
					7950	2356	690	30.67					
		207-209	4/02/2022	28	8080	2394	900	40.00	40.14				
					8000	2370	905	40.22					
					8220	2436	905	40.22					
36	6/01/2022	210-212	13/1/2022	7	8100	2400	580	25.78	25.70	G25N	160	DRAINAGE (600MM,450MM & 300MM	LEPPO CONCRETE SDN BHD
					8140	2382	585	26.00					
					8040	2382	570	25.33					
		213-215	4/02/2022	28	7950	2356	760	33.78	33.85				
					8000	2370	765	34.00					
					8000	2370	760	33.78					
37	7/01/2022	216-218	14/1/2022	7	8040	2382	580	25.78	25.56	G25N	160	DRAINAGE (450MM & 600MM	LEPPO CONCRETE SDN BHD
					8000	2370	565	25.11					
					8000	2370	570	25.33					
		219-221	4/02/2022	28	8100	2400	740	32.89	32.89				
					8000	2370	745	33.11					
					8220	2436	735	32.67					
38	14/1/2022	222-224	21/1/2022	7	8100	2400	580	25.78	25.85	G25N	160	DRAINAGE (300MM OPEN & 600MM RC CULVERT	LEPPO CONCRETE SDN BHD
					8000	2370	575	25.56					
					8080	2394	730	32.44					
		225-227	2/11/2022	28	8000	2370	745	33.11	32.81				
					8000	2370	740	32.89					
39	27/12/2021	180-182	1/03/2022	7	8060	2388	580	25.78	25.85	G25N	150	DRAINAGE (600MM OPEN	LEPPO CONCRETE SDN BHD
					8120	2406	580	25.78					
					8000	2370	585	26.00					
		183-185	24/1/2022	28	8000	2370	880	39.11	38.97				
					7950	2356	875	38.89					
					8010	2373	875	38.89					
40	31/12/2021	198-200	1/07/2022	7	8000	2370	710	31.56	31.11	G30N	140	BALAI BOMBA/ UPPER ROOF BEAM(6-8,8D) & TANGGA 1	LEPPO CONCRETE SDN BHD
					7910	2367	695	30.44					
					8000	2370	705	31.33					
		201-203	28/1/2022	28	8000	2370	890	39.56	39.33				
					8120	2406	880	39.11					
					8120	2406	885	39.33					
41	15/01/2022	228-230	22/01/2022	7	8100	2400	700	31.11	30.81	G30N	160	KUARTERS/ROOF BEAM	LEPPO CONCRETE SDN BHD
					8000	2370	685	30.44					
					8120	2406	685	30.44					
		231-233	12/02/2022	28	8100	2400	905	40.22	40.30				
					8000	2370	900	40.00					
					8120	2406	915	40.67					
42	1/02/2022	234-236	16/02/2022	7	8000	2370	690	30.67	30.89	G30N	150	KUARTERS/APRON	LEPPO CONCRETE SDN BHD
					8010	2373	700	31.11					
					8000	2370	695	30.89					
		237-239	1/03/2022	28	8000	2370	880	39.11	39.11				
					8000	2370	880	39.11					
					8000	2370	880	39.11					
43	15/1/2022	1,2,3	22/1/2022	7	8130	2424	695	30.89	31.30	G30N	120	tower 4th flr slab	KDT AMIX CONCRETE SDN BHD
					8210	2433	700	31.11					
					8220	2436	715	31.78					
		1,2,3	12/02/2022	28	8170	2421	855	38.00	37.60				
					8150	2415	810	36.00					
					8220	2436	875	38.89					

No	Date Casting	Cube Set No	Date Tested	Age (Days)	Weight (kg)	Density (Mg/m3)	Load (kN)	Strength (N/mm2)	Average Strength (N/mm2)	Concrete Grade	Slump (mm)	Concreting Location/Structure/Chainage	Concrete Supplier
44	19/1/2022	1,2,3	25/1/2022	7	8200	2.430	700	31.11	31.40	G30N	125	KUARTERS/STAIRCASE	KOTAMIX CONCRETE SDN BHD
					8230	2.439	715	31.78					
					8210	2.433	705	31.33					
		1,2,3	16/2/2022	28	8220	2.436	875	38.89	39.00				
					8220	2.436	870	38.67					
					8240	2.441	885	39.33					
45	22/1/2022	1,2,3	29/1/2022	7	8240	2.441	725	32.22	32.10	G30N	110	TOWER/ COLUMNS & RC WALL(4TH-5TH)	KOTAMIX CONCRETE SDN BHD
					8250	2.444	730	32.44					
					8220	2.436	715	31.78					
		1,2,3	19/2/2022	28	8230	2.439	835	37.11	37.30				
					8220	2.436	825	36.67					
					8250	2.444	860	38.22					
46	10/02/2022	1,2,3	17/2/2022	7	8230	2.439	715	31.78	31.30	G30N	115	TOWER/COLIMNS & RC WALL (5TH - ROOF)	KOTAMIX CONCRETE SDN BHD
					8190	2.427	695	30.89					
					8200	2.430	700	31.11					
		1,2,3	10/03/2022	28	8220	2.436	840	37.33	36.50				
					8180	2.424	805	35.78					
					8210	2.433	820	36.44					
47	16/02/2022	1,2,3	23/2/2022	7	8220	2.436	715	31.78	31.60	G30N	110	KUARTERS/ COLUMNS ROOF-UPPER ROOF & UPPER ROOF BEAM	KOTAMIX CONCRETE SDN BHD
					8210	2.433	705	31.33					
					8220	2.436	715	31.78					
		1,2,3	16/3/2022	28	8240	2.441	850	37.78	37.10				
					8210	2.433	825	36.67					
					8210	2.433	830	36.89					
50	25/02/2022	1,2,3	3/04/2022	7	8240	2.441	730	32.44	32.10	G30N	110	TOWER/ ROOF SLAB	KOTAMIX CONCRETE SDN BHD
					8200	2.430	690	30.67					
					8260	2.447	745	33.11					
		1,2,3	25/3/2022	28	8230	2.439	870	38.67	38.00				
					8210	2.433	840	37.33					
					8230	2.439	855	38.00					
51	3/03/2022	1,2,3	10/03/2022	7	8200	2.430	710	31.56	31.60	G30N	115	TOWER/STAIRCASE 1ST - 2ND	KOTAMIX CONCRETE SDN BHD
					8210	2.433	700	31.11					
					8240	2.441	725	32.22					
		1,2,3	31/3/2022	28	8230	2.439	845	37.56	37.30				
					8200	2.430	820	36.44					
					8240	2.441	855	38.00					
52	8/03/2022	1,2,3	15/3/2022	7	8180	2.424	685	30.44	30.10	G30N	125	ON SITE DETENTION POND/BASE	KOTAMIX CONCRETE SDN BHD
					8150	2.415	650	28.89					
					8190	2.427	700	31.11					
		1,2,3	5/04/2022	28	8210	2.433	810	36.00	35.50				
					8210	2.433	805	35.78					
					8190	2.427	780	34.67					
53	14/3/2022	1,2,3	21/3/2022	7	8180	2.424	685	30.44	30.10	G30N	110	ON SITE DETENTION POND / WALL	KOTAMIX CONCRETE SDN BHD
					8150	2.415	650	28.89					
					8190	2.427	700	31.11					
		1,2,3	11/04/2022	28	8170	2.421	815	36.22	36.10				
					8180	2.424	825	36.67					
					8140	2.412	800	35.56					

No	Date Casting	Cube Set No	Date Tested	Age (Days)	Weight (kg)	Density (Mg/m3)	Load (kN)	Strength (N/mm2)	Average Strength (N/mm2)	Concrete Grade	Slump (mm)	Concreting Location/Structure/Chainage	Concrete Supplier
54	16/3/2022	1,2,3	23/3/2022	7	8210	2.433	715	31.78	31.90	G30N	120	TOWER/ STAIRCASE 2ND - 3RD	KOTAMIX CONCRETE SDN BHD
					8210	2.433	710	31.56					
					8220	2.436	725	32.22					
		1,2,3	13/04/2022	28	8230	2.439	900	40.00	39.30				
					8220	2.436	880	39.11					
					8190	2.427	875	38.89					
55	17/3/2022	1,2,3	24/3/2022	7	8240	2.441	745	33.11	32.90	G30N	110	ON SITE DETENTION POND/ WALL	KOTAMIX CONCRETE SDN BHD
					8260	2.447	760	33.78					
					8220	2.436	715	31.78					
		1,2,3	14/04/2022	28	8190	2.427	895	39.78	41.00				
					8240	2.441	945	42.00					
					8230	2.439	930	41.33					
56	21/3/2022	1,2,3	28/3/2022	7	8220	2.436	720	32.00	32.40	G30N	115	ON SITE DETENTION POND / WALL	KOTAMIX CONCRETE SDN BHD
					8230	2.439	725	32.22					
					8250	2.444	745	33.11					
		1,2,3	18/04/2022	28	8210	2.433	865	38.44	39.10				
					8230	2.439	890	39.56					
					8230	2.439	885	39.33					
57	26/3/2022	1,2,3	2/04/2022	7	8250	2.444	740	32.89	32.00	G30N	105	DRAINAGE/450MM OPEN	KOTAMIX CONCRETE SDN BHD
					8180	2.424	700	31.11					
					8230	2.439	720	32.00					
		1,2,3	23/04/2022	28	8210	2.433	865	38.44	38.20				
					8180	2.424	845	37.56					
					8210	2.433	870	38.67					

No	Date Casting	Cube Set No	Date Tested	Age (Days)	Weight (kg)	Density (Mg/m3)	Load (kN)	Strength (N/mm2)	Average Strength (N/mm2)	Concrete Grade	Slump (mm)	Concreting Location/Structure/Chainage	Concrete Supplier
58	13/04/2022	1,2,3	20/04/2022	7	8080	2.394	600	26.67	26.44	G25N	150	DRAINAGE	LEPPO CONCRETE SDN BHD
					8000	2.370	590	26.22					
					8000	2.370	595	26.44					
		1,2,3	5/11/2022	28	8080	2.394	790	35.11	35.26				
					8120	2.406	790	35.11					
					8080	2.394	800	35.56					
59	20.04.2022	1,2,3	27/04/2022	7	8040	2.382	659	29.29	31.11	G30N	160	GROUND SLAB	LEPPO CONCRETE SDN BHD
					8020	2.376	700	31.11					
					8080	2.394	705	31.33					
		1,2,3	18/05/2022	28	8100	2.400	890	39.56	39.92				
					8000	2.370	900	40.00					
					8010	2.373	905	40.22					
60	06.05.2022	1,2,3	13/05/2022	7	8000	2.370	580	25.78	26.15	G25N	160	DRAINAGE	LEPPO CONCRETE SDN BHD
					8160	2.418	585	26.00					
					8010	2.373	600	26.67					
		1,2,3				0.000		0.00					
						0.000		0.00					
						0.000		0.00					
61	07.05.2022	1,2,3	14/05/2022	7	8020	2.376	590	26.22	26.52	G25N	150	DRAINAGE	LEPPO CONCRETE SDN BHD
					8040	2.382	600	26.67					
					8100	2.400	600	26.67					
		1,2,3				0.000		0.00					
						0.000		0.00					
						0.000		0.00					
62	12.05.2022	1,2,3	19/05/2022	7	8060	2.388	595	26.44	26.14	G25N	150	DRAINAGE	LEPPO CONCRETE SDN BHD
					8120	2.406	590	26.22					
					8180	2.424	580	25.78					
		1,2,3				0.000		0.00					
						0.000		0.00					
						0.000		0.00					

Standard Deviation for G35N Concrete

			STATISTICAL ANALYSIS			
GRADE OF CONCRETE:		G35N	Target mean Strength =		35.00 N/MM²	
BATCH NO	DATE CAST	DATE TESTED	AVG.COMP. STRENGTH (N/MM²)			BATCH NO
			28 DAYS	(x-x̄)	(x-x̄)²	
3	9/08/2021	6/09/2021	38.37	-8.03	64.507	
4	19/08/2021	18/9/2021	47.48	1.08	1.165	
5	7/08/2021	3/09/2021	46.37	-0.03	0.001	
6	9/08/2021	6/09/2021	47.40	1.00	0.996	
7	6/08/2021	4/09/2021	47.70	1.30	1.685	
8	14/8/2021	11/09/2021	48.00	1.60	2.554	
9	18/8/2021	18/9/2021	47.63	1.23	1.507	
10	25/8/2021	22/9/2021	47.41	1.01	1.011	
11	26/8/2021	23/9/2021	47.26	0.86	0.735	
12						
13						
14						
		n =	9			
		Σx=	417.62			
		(Σx-x̄)²=	74.16			
		x̄=	46.40			
		S.D=	3.04 N/MM²			

Standard Deviation for G30N Concrete

CADANGAN PEMMBINAAN BALAI BOMBA DAN KUARTERS PUTATAN SABAH

SUPPLIER: LEPPO CONCRETE

STATISTICAL ANALYSIS

GRADE OF CONCRETE: G30N — **Target mean Strength = 30.00 N/MM²**

BATCH NO	DATE CAST	DATE TESTED	AVG.COMP. STRENGTH (N/MM²)			BATCH NO	DATE CAST	DATE TESTED	AVG.COMP. STRENGTH (N/MM²)		
			28 DAYS	**(x-x̄)**	**(x-x̄)²**				**28 DAYS**	**(x-x̄)**	**(x-x̄)²**
13	28/8/2021	25/9/2021	42.67	-2.33	5.41						
14	11/09/2021	12/10/2021	42.15	-2.85	8.10						
15	13/9/2021	12/10/2021	42.44	-2.55	6.50						
24	3/11/2021	1/12/2021	42.96	-2.03	4.123						
27	20/11/2021	18/12/2021	42.89	-2.10	4.42						
28	22/11/2021	28/12/2021	42.89	-2.10	4.42						
32	4/12/2021	3/01/2022	42.60	-2.39	5.73						
34	18/12/2021	15/1/2022	42.52	-2.47	6.12						
35	5/1/20222	4/02/2022	40.14	-2.47	6.12						
40	31/12/2021	28/1/2022	39.33	-4.85	23.56						
41	15/01/2022	12/02/2022	40.30	-5.66	32.08						
42	9/02/2022	9/03/2022	39.11	-4.69	22.03						
57	20/04/2022	18/05/2022	39.92	-5.88	34.62						

n =	**12**
Σx=	**539.92**
(Σx-x̄)²=	**163.22**
x̄=	**44.99**
S.D=	**3.85 N/MM²**

Standard Deviation for G30N Concrete

CADANGAN PEMMBINAAN BALAI BOMBA DAN KUARTERS PUTATAN SABAH

SUPPLIER: KOTA MIX

STATISTICAL ANALYSIS

GRADE OF CONCRETE: G30N — Target mean Strength = 30.00 N/MM²

BATCH NO	DATE CAST	DATE TESTED	AVG.COMP. STRENGTH (N/MM²) 28 DAYS	(x-x̄)	(x-x̄)²	BATCH NO	DATE CAST	DATE TESTED	AVG.COMP. STRENGTH (N/MM²) 28 DAYS	(x-x̄)	(x-x̄)²
16	20/9/2021	18/10/2021	41.56	2.80	7.867	46	10/02/2022	10/03/2022	36.50	-2.25	5.07
17	25/9/2021	23/10/2021	40.59	1.84	3.392	47	16/02/2022	16/3/2022	37.10	-1.65	2.73
18	28/9/2021	26/10/2021	39.93	1.18	1.381	48	25/02/2022	25/3/2022	38.00	-0.75	0.56
19	1/10/2021	29/10/2021	38.67	-0.08	0.007	49	3/03/2022	31/3/2022	37.30	-1.45	2.10
20	11/10/2021	8/11/2021	40.07	1.32	1.751	50	8/03/2022	5/04/2022	35.50	-3.25	10.57
22	14/10/2021	11/11/2021	40.15	1.40	1.953	51	14/3/2022	11/04/2022	36.10	-2.65	7.03
23	16/10/2021	13/11/2021	39.26	0.51	0.259	52	16/3/2022	13/04/2022	39.30	0.55	0.30
25	12/11/2021	10/12/2021	38.81	0.06	0.004	53	17/3/2022	14/04/2022	41.00	2.25	5.06
26	16/11/2021	14/12/2021	41.48	2.73	7.45	54	21/3/2022	18/04/2022	39.10	0.35	0.12
43	15/1/2022	12/02/2022	37.60	-1.15	1.32	55	26/3/2022	23/04/2022	38.20	-0.55	0.30
44	19/1/2022	16/2/2022	39.00	-1.15	1.32						
45	22/1/2022	19/2/2022	37.30	0.25	0.06						

n =	22
Σx=	852.52
(Σx-x̄)²=	60.61
x̄=	38.75
S.D=	1.70 N/MM²

Standard Deviation for G25N Concrete

CADANGAN PEMMBINAAN BALAI BOMBA DAN KUARTERS PUTATAN SABAH

STATISTICAL ANALYSIS

GRADE OF CONCRETE: G25N

BATCH NO	DATE CAST	DATE TESTED	AVG.COMP. STRENGTH (N/MM²)			BATCH NO	DATE CAST	DATE TESTED	AVG.COMP. STRENGTH (N/MM²)		
			28 DAYS	(x-x̄)	(x-x̄)²				28 DAYS	(x-x̄)	(x-x̄)²
29	26/11/2021	24/12/2021	31.50	-1.26	1.60					0.00	0.00
30	29/11/2021	28/12/2021	30.65	-2.11	4.47					0.00	0.00
31	1/12/2021	29/12/2021	31.20	-1.56	2.45					0.00	0.00
33	26/11/2021	24/12/2021	31.50	-1.26	1.60					0.00	0.00
39	27/12/2021	24/1/2022	38.97	6.21	38.51					0.00	0.00
56	13/04/2022	5/05/2022	35.26	2.50	6.23					0.00	0.00
				0.00	0.00					0.00	0.00
				0.00	0.00					0.00	0.00
				0.00	0.00					0.00	0.00
				0.00	0.00					0.00	0.00
				0.00	0.00					0.00	0.00
				0.00	0.00					0.00	0.00

n =	5
Σx=	163.82
(Σx-x̄)²=	48.62
x̄=	32.76
S.D=	3.49 N/MM²

AS-BUILT DRAWING

AS-BUILT DRAWING	DATE	STATUS
Earthwork Layout Plan & Levels	23/11/21	Softcopy telah disemakkan.
Pad Footing As-Built		
Sewerage Layout Plan & Invert Levels		
Drainage Layout Plan & Invert Levels		
Water Supply Layout Plan & Depth		
Road Layout Plan & Levels		
Structure & As-built Drawing		
Roof Truss Structure As-Built Drawing		
Building Setting Out Plan As-built Drawing		

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Request for Site Inspection (RFI)

RFI No.	DATE	SUBJECT	LOCATION
01	12/04/21	Plate Bearing Test	CANCEL
02	12/04/21	CBR Test for Sub-grade	CANCEL
003	19/04/21	Plate Bearing Test	Balai Bomba
004	19/04/21	Plate Bearing Test	Kuarters
005	19/04/21	Plate Bearing Test	Tower
006	28/04/21	Setting out	Balai Bomba
007	3/5/21	Setting out	Pump House
008	17/05/21	Casting footing	Pump House
009	22/05/21	Casting footin EF,3-8	Balai Bomba
010	27/05/21	Casting Footing EF,1-8	Balai Bomba
011	27/05/21	Casting ground beam	Pump House
012	29/05/21	Casting ground slab	Pump House
013	30/07/21	Setting out	Kuarters
014	04/08/21	Casting footing AB,0-5A	Kuarters
015	07/08/21	Casting footing AD,6-8	Balai Bomba

RFI No.	DATE	SUBJECT	LOCATION
016	11/8/21	Casting columns (ground – 1stfloor)	Pump house
017	12/08/21	Casting footing (h,3-4), (de,8), (cd,1-2)	Balai bomba
018	13/08/21	Inspection of joint survey for as-built earthwork	
019	14/8/21	Cating footing c-e3,0-2	kuarters
020	16/8/21	Setting out	Menara latihan
021	18/8/21	Casting footing fh,0-2	Kuarters
022	23/8/21	Casting raft foundation	Menara latihan
023	24/8/21	Casting footing cf,3-4	Kuarters
024	26/8/21	Casting roof beam	Pump house
025	26/8/21	Casting footing gh,3-4	kuareters
026	27/8/21	Casting footing c2-h,3-4	kuarters
027	30/8/21	Casting ground beam	Menara latihan
028	03/09/21	Casting ground slab	Menara latihan
029	11/9/21	Casting column and rc wall(ground -1stfloor)	Menara latihan
030	11/9/21	Casting ground beam	Balai bomba
031	18/09/21	Casting ground beam	Kuarters
032	24/9/21	Casting ground slab	Balai bomba

RFI No.	DATE	SUBJECT	LOCATION
033	24/9/21	Casting 1stfloor slab	Menara latihan
034	28/9/21	Casting ground slab	Kuarters
035	01/10/21	Casting column (ground – 1st floor)	Balai bomba
036	08/10/21	Casting column (ground – 1stfloor)	Kuarters
037	11/10/21	MENARA LATIHAN	CONCRETING COLUMNS (1ST– 2NDFLOOR)
038	11/10/21	RUMAH SAMPAH	SETTING OUT PAD FOOTING
039	11/10/21	RUMAH SAMPAH	CONCRETING FOOTING
040	14/10/21	BALAI BOMBA	CONCRETING RAMP
041	14/10/21	RUMAH SAMPAH	CONCRETING GROUND BEAM
042	15/10/21	KOLAH AIR	SETTING OUT
043	16/10/21	KOLAH AIR	CONCRETING GROUND SLAB

RFI No.	DATE	SUBJECT	LOCATION
044	16/10/21	RUMAH SAMPAH	CONCRETING GROUND SLAB
045	21/10/21	RUMAH SAMPAH	CONCRETING COLUMNS (GROUND – ROOF BEAM)
046	03/11/21	RUMAH SAMPAH	CONCRETING ROOF BEAM & RC GUTTER
047	03/11/21	KOLAH AIR	CONCRETING RC WALLS
048	12/11/21	BALAI BOMBA	CONCRETING 1ST FLOOR SLAB
049	16/11/21	KUARTERS	CONCRETING 1ST FLOOR SLAB
050	16/11/21	RUMAH SAMPAH	CONCRETING RC GUTTER WALL
051	16/11/21	MENARA LATIHAN	CONCRETING 2nd FLOOR SLAB
052	20/11/21	BALAI BOMBA	CONCRETING – COLUMN 1ST & 2ND FLOOR

RFI No.	DATE	SUBJECT	LOCATION
053	22/11/21	KUARTERS	CONCRETING - COLUMN
054	22/11/21	DRAINAGE	CONCRETING 450MM OPEN & 450MM CONCEAL DRAIN
055	24/11/21	DRAINAGE	CONCRETING 300MM & 450MM COVER DRAIN
056	26/11/21	DRAINAGE	CONCRETING 300MM & 450MM COVER DRAIN
057	29/11/21	DRAINAGE	CONCRETING 450MM & 600MM CONCEAL DRAIN
058	01/12/21	DRAINAGE	CONCRETING 300MM & 450MM COVER DRAIN
059	04/12/21	DRAINAGE	CONCRETING 600MM, 450MM & 300MM
060	07/12/21	DRAINAGE	CONCRETING 300MM & 450MM COVER DRAIN
061	08/12/21	BALAI BOMBA	CONCRETING COLUMN 1STROOF
062	11/12/2021	BALAI BOMBA	CONCRETING COLUMNS ROOF – UPPER ROOF

RFI No.	DATE	SUBJECT	LOCATION
063	13/12/2021	KUARTERS	CONCRETING 1ST FLR SLAB(1-7,EH)
064	15/12/2021	DRAINAGE	CONCRETING 450MM & 600MM CONCEAL
065	18/122021	MENARA LATIHAN	CONCRETING 3RD FLR SLAB
066	22/12/2021	KUARTERS	CONCRETING COLUMNS 1ST – ROOF(1-7,EH)
067	27/12/2021	DRAINAGE	CONCRETING 600MM CONCEAL
068	30/12/2021	BALAI BOMBA	CONCRETING UPPER ROOF BEAM(4-6,EF) & TANGGA 1
069	31/12/2021	BALAI BOMBA	CONCRETING UPPER ROOF BEAM(6-8,BD) & TANGGA 2
070	5/1/2022	BALAI BOMBA	CONCRETING ROOF BEAM (4-7, AG)
071	6/1/2022	DRAINAGE	CONCRETING 600MM,450MM & 300MM OPEN

RFI No.	DATE	SUBJECT	LOCATION
072	14/1/2022	DRAINAGE	CONCRETING 600MM & 300MM OPEN
073	15/1/2022	MENARA LATIHAN	CONCRETING 4TH FLR SLAB
074	15/1/2022	KUARTERS	CONCRETING ROOF BEAM (1-6,AD)
075	22/1/2022	MENARA LATIHAN	CONCRETING COLUMNS & RC WALL(4TH-5TH)
076	24/1/2022	DRAINAGE	CONCRETING 600MM CONCEAL DRAIN
077	29/1/2022	MENARA LATIHAN	CONCRETING 5TH FLR SLAB
078	03/02/2022	KUARTERS	CONCRETING ROOF BEAM (1-7,EH)
079	05/02/2022	BALAI BOMBA	CONCRETING APRON
080	07/02/2022	KUARTERS	CONCRETING APRON
081	10/02/2022	MENARA LATIHAN	CONCRETING COLUMNS & RC WALLS (5TH– ROOF)
082	16/02/2022	KUARTERS	CONCRETING UPPER ROOF BEAM & COLUMNS(ROOF-UPPER ROOF)

RFI No.	DATE	SUBJECT	LOCATION
083	24/02/2022	MENARA LATIHAN	CONCRETING ROOF SLAB
084	03/03/2022	MENARA LATIHAN	CONCRETING STAIRCASE (1ST– 2ND)
085	08/03/2022	ON-SITE DETENTION POND	CONCRETING DETENTION POND BASE
086	14/03/2022	ON-SITE DETENTION POND	CONCRETING DETENTION POND WALL
087	16/03/2022	TOWER	CONCRETING STAIRCASE (2ND– 3RD)
088	17/03/2022	ON-SITE DETENTION POND	CONCRETING DETENTION POND WALL
089	18/03/2022	ON-SITE DETENTION POND	CONCRETING DETENTION POND WALL
090	21/03/2022	ON-SITE DETENTION POND	CONCRETING DETENTION POND WALL
091	22/03/2022	DRAINAGE	CONCRETING 450MM OPEN DRAIN SLAB
092	26/03/2022 2	DRAINAGE	CONCRETING 450MM OPEN DRAIN WALL

RFI No.	DATE	SUBJECT	LOCATION
093	13.04.2022	DRAINAGE	CONCRETING
094	20.04.2022	GROUND SLAB	CONCRETING
095	06.05.2022	DRAINAGE	CONCRETING
096	07.05.2022	DRAINAGE	CONCRETING
097	12.05.2022	DRAINAGE	CONCRETING

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Request for Site Inspection (RFI) -QA/QC

RFI No.	DATE	SUBJECT	LOCATION
1	4/5/21	Trial Mix G35N	All structure
2	6/5/21	Trial Mix G30P, G30N, G25N	All structure
3	11/5/21	7days cube test G35N(Trial Mix)	All structure
4	13/5/21	7 days cube test G30P,G30N,G25N (Trial Mix)	All structure
5	18/5/21	14days cube test G35N (Trial Mix)	All structure
6	03/06/21	7days cube test (G35N)	Pump house (footing)
7	03/06/21	7 days cube test	Balai bomba (footing)
8	16/8/21	Trial Mix G25N,G30N,G30P,G35N (KOTAMIX)	All structure
9	19/8/21	28 days cube test G25N,G30N,G35N	All structure
10	25/8/21	28 days cube test	Pump house (footing)
11	25/8/21	28 days cube test (Trial Mix) Leppo	All structure
12	26/8/21	7 days cube test	Kuarters (footing)

RFI No.	DATE	SUBJECT	LOCATION
13	26/8/21	7 days cube test	Kuarters (footing)
14	26/8/21	7 days cube test	Balai bomba (footing)
15	26/8/21	7 dauys cube test	Kuarters (footing)
16	26/8/21	7 days cube test	Kuarters (footing)
17	26/8/21	7 days cube test	Balai bomba (footing)
18	26/8/21	28 days cube test	Balai bomba (footing)
19	26/8/21	7 dasy cube test	Balai bomba (footing)
20	26/8/21	7 days cube test	Balai bomba (footing)
21	26/8/21	7 days cube test	Balai bomba (footing)
22	1/9/21	7 days cube test	Kuarters (footing) & Tower (raft foundation)
23	2/9/21	7 days cube test	Kuarters (footing)
24	3/9/21	28 days cube test	Balai bomba (footing)
25	4/9/21	28 days cube test	Kuarers (footing)
26	4/9/21	7 days cube test	Pump house (roof beam)
27	6/9/21	28 days cube test	Kuarters (footing)
28	11/9/21	28 days cube test	Kuarters (footing)
29	13/9/21	28 days cube test G30P (KOTAMIX)	All structure

RFI No.	DATE	SUBJECT	LOCATION
30	13/9/21	28 days cube test G30N(KOTAMIX)	All structure
31	13/9/21	28 days cube test G35N (KOTAMIX)	All structure
32	13/9/21	28 days cube test G25N (KOTAMIX)	All structure
33	18/9/21	28 days cube test	Balai bomba (footing)
34	18/9/21	7 dasy cube test	Balai bomba (ground beam)
35	18/9/21	28 days cube test	Kuarters (footing)
36	22/9/21	28 days cube test	Kuarters (footing) & tower (raft foundation)
37	23/9/21	7 days cube test	Tower (column & rc wall 1st– ground floor)
38	23/9/21	28 days cube test	Kuarters (footing)
39	25/9/21	28 days cube test	Pump house (roof beam)
40	27/9/21	7 days cube test	Kuarters (ground beam)
41	2/10/21	7 days cube test	Balai bomba (ground slab) & tower (1stfloor slab)
42	5/10/21	7 days cube test	Kuarters (ground slab)

RFI No.	DATE	SUBJECT	LOCATION
43	18/10/21	7 days cube test	Kuarters (columns G-1stfloor) & Menara Latihan (1st– 2ndfloor)
44	18/10/21	7 days cube test	Rumah sampah (footings)
45	21/10/21	7 days cube test	Balai bomba (ramp)
46	23/10/21	7 days cube test	Kolah air (ground slab) & Rumah sampah (ground slab)
47	23/10/21	28 days cube test	Balai bomba (1stfloor slab) & Menara Latihan (1stfloor slab)
48	26/10/21	28 days cube test	Kuarters (ground beam)
49	29/10/21	28 days cube test	Balai bomba (columns Ground – 1stfloor)
50	8/11/2021	28 days cube test	Kuarters(columns G-1stflr) & Tower(columns &rc wall 1st-2nd)
51	8/11/2021	28 days cube test	Rumah sampah (footings)
52	11/11/2021	28 days cube test	Balai bomba(ramp) & rumah sampah(G.beam)
53	13/11/2021	28 days cube test	Rumah sampah(roof beam) & kolah air (rc wall)
54	13/11/2021	28 days cube test	Kolah air(ground slab) & rumah sampah(ground slab)

RFI No.	DATE	SUBJECT	LOCATION
55	19/11/2021	7 days cube test	Balai bomba(1stflr slab)
56	23/11/2021	7 days cube test	Kuarters(1stflr slab)(AD,0-6) & rumah sampah(rc wall)
57	27/11/2021	7 days cube test	Balai bomba(columns 1st– roof)
58	3/12/2021	7 days cube test	Drainage (450mm & 300mm cover drain slab)
59	6/12/2021	7 days cube test	Drainage(600mm conceal slab)
60	8/12/2021	7 days cube test	Drainage (300mm & 450mm rc cover drain)
61	10/12/2021	28 days cube test	Balai bomba (1stflr slab)
62	11/12/2021	7 days cube test	Tower (columns & rc wall)(2nd– 3rd)
63	14/12/2021	28 days cube test	Kuarters(1stflr slab) & Rumah sampah(rc wall)
64	18/12/2021	28 days cube test	Balai bomba (columns 1st– roof)(3-8,AH)
65	20/12/2021	7 days cube test	Kuarters (1stflr slab)(1-7,EH)
66	24/12/2021	28 days cube test	Balai bomba columns (1st– roof beam)
67	28/12/2021	28 days cube test	Drainage (600mm conceal)

RFI No.	DATE	SUBJECT	LOCATION
68	28/12/2021	7 days cube test	Tower (3rdflr slab)
69	28/12/2021	28 days cube test	Kuarters (columns 1st– roof)
70	29/12/2021	28 days cube test	Drainage (300mm & 450mm rc cover)
71	3/1/2022	28 days cube test	Tower(columns & rc wall)(2nd– 3rd)
72	10/1/2022	28 days cube tets	Kuarters(1stflr slab)(1-7,EH)
73	12/1/2022	7 days cube test	Balai Bomba (roof beam)(1-2,AH)
74	13/1/2022	7 days cube test	Drainage(600mm,450mm & 300mm)
75	14/1/2022	7 days cube test	Drainage(450mm & 600mm)
76	15/1/2022	28 days cube test	Tower(3rdflr slab)
77	21/1/2022	7 days cube test	Drainage(300mm open & 600mm RC Culvert)
78	22/1/2022	7 days cube test	Kuarters (roof beam)(1-7, AD)
79	24/01/2022	28 days cube test	Drainage (600mm open)
80	26/01/2022	7 days cube test	Kuarters (staircase)
81	29/01/2022	7 days cube test	Tower(columns & rc wall) (4th– 5th)
82	04/02/2022	28 days cube test	Drainage (600mm open, 450mm open & 300mm open)
83	04/02/2022	28 days cube test	Balai bomba (roof beam) (1-2, AH)

RFI No.	DATE	SUBJECT	LOCATION
84	04/02/2022	28 days cube test	Drainage 450mm open & 600mm open
85	11/02/2022	28 days cube test	Drainage 300mm open & 600mm RC culvert
86	12/02/2022	28 days cube test	Tower (4thflr slab)
87	12/02/2022	28 days cube test	Kuarters (roof beam)(1-7,AD)
88	16/02/2022	28 days cube test	Kuarters (staircase)
89	16/02/2022	7 days cube test	Kuarters (apron)
90	17/02/2022	7 days cube test	Tower (column & rc wall)(5th_ roof)
91	19/02/2022	28 days cube test	Tower(column & rc wall) (4th– 5th)
92	23/02/2022	7 days cube test	Kuarters (column roof – upper rof & upper roof beam)
93	16/3/2022	28 days cube test	Kuarters (column roof – upper rof & upper roof beam)
94	4/3/2022	7 days cube test	TOWER/ ROOF SLAB
95	25/3/2022	28 days cube test	TOWER/ ROOF SLAB
96	10/3/2022	7 days cube test	TOWER/STAIRCASE 1ST - 2ND
97	31/3/2022	28 days cube test	TOWER/STAIRCASE 1ST - 2ND

RFI No.	DATE	SUBJECT	LOCATION
98	15/3/2022	7 days cube test	ON SITE DETENTION POND/BASE
99	5/4/2022	28 days cube test	ON SITE DETENTION POND/BASE
100	21/3/2022	7 days cube test	ON SITE DETENTION POND / WALL
101	11/4/2022	28 days cube test	ON SITE DETENTION POND / WALL
102	23/3/2022	7 days cube test	TOWER/ STAIRCASE 2ND - 3RD
103	13/04/2022	28 days cube test	TOWER/ STAIRCASE 2ND - 3RD
104	24/3/2022	7 days cube test	ON SITE DETENTION POND/ WALL
105	14/04/2022	28 days cube test	ON SITE DETENTION POND/ WALL
106	28/3/2022	7 days cube test	ON SITE DETENTION POND / WALL
107	18/04/2022	28 days cube test	ON SITE DETENTION POND / WALL
108	2/4/2022	7 days cube test	DRAINAGE/450MM OPEN
109	23/04/2022	28 days cube test	DRAINAGE/450MM OPEN

RFI No.	DATE	SUBJECT	LOCATION
110	20/04/2022	7 days cube test	DRAINAGE
111	11/5/2022	28 days cube test	DRAINAGE
112	27/04/2022	7 days cube test	GROUND SLAB
113	18/05/2022	28 days cube test	GROUND SLAB

ISU-ISU KERJA DI TAPAK KERJA-KERJA C&S

Request for Site Information Technical (RFIT)

RFIT No.	DATE	SUBJECT	STATUS
1	19/01/22	Location of Manhole 1	closed
2	19/01/22	Alignment of sewerage pipe	closed
3	21/01/22	rainwater harvesting tank details	closed
4	21/01/22	Circular steel tank details	closed
5	26/01/22	Kuarters structure roof key plan	closed

ISU-ISU KERJA DI TAPAK KERJA-KERJA C&S

NON-CONFORMANCE REPORT (NCR)

NCR No.	DATE	SUBJECT	STATUS
1.	17/08/2021	NCR on Earthwork As-Built Drawing	OPEN
2.	28/10/2021	NCR on honeycomb at Menara Latihan 1st floor RC wall	CLOSED
3.	25/03/2022	Kuarters 1st floor RC Beam bulging	CLOSED

ISU-ISU KERJA DI TAPAK KERJA-KERJA C&S

SITE MEMORANDUM (SM)

SM No.	DATE	SUBJECT	STATUS
1.	12/09/21	Rebar storage	Tutup
2.	21/09/21	Safety on site	Tutup
3.	07/10/21	Balai Bomba RC Column honeycombs	Tutup
4.	08/02/22	Sewer pipe installation	Tutup

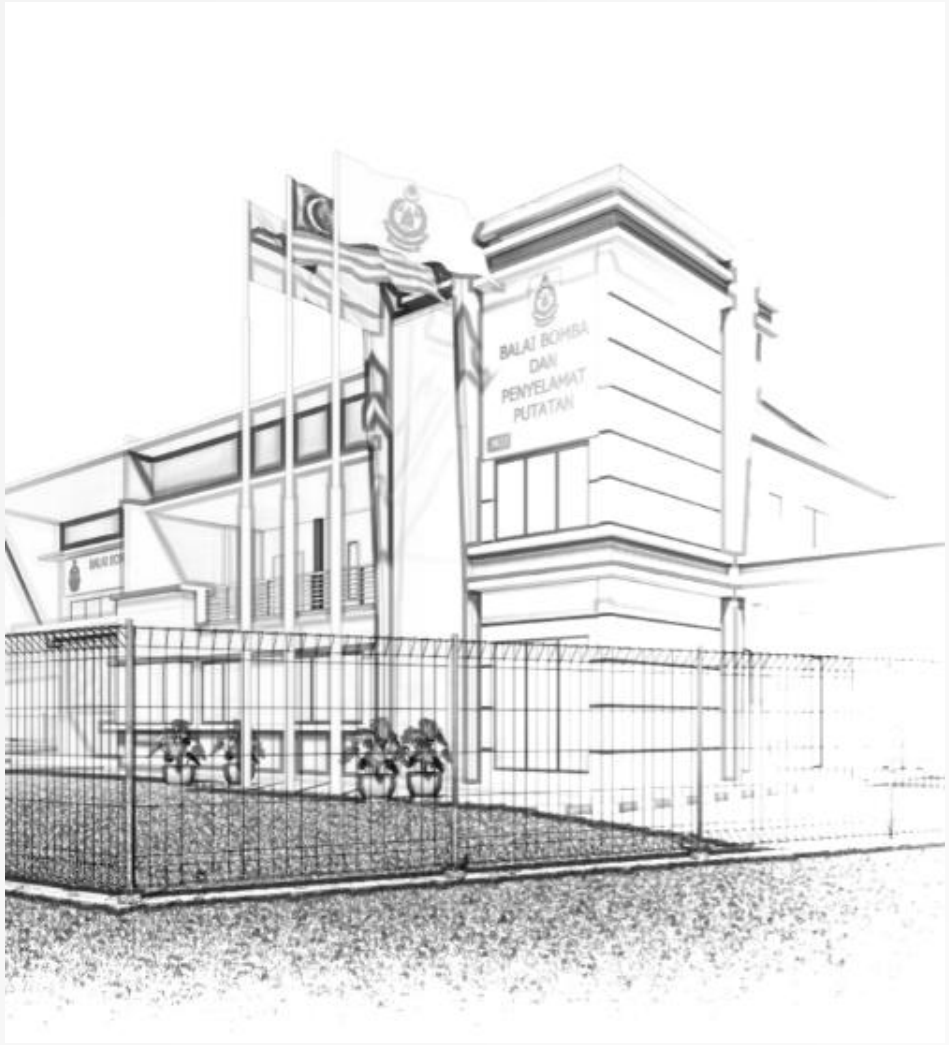
GAMBAR-GAMBAR DARI RESIDENT ENGINEER











THANK YOU

FOR YOUR ATTENTION.