



**REPUBLIK INDONESIA**  
**KEMENTERIAN PEKERJAAN UMUM DAN PERUMAHAN RAKYAT**  
**DIREKTORAT JENDERAL BINA MARGA**

**SPESIFIKASI KHUSUS**



**PROYEK PEMBANGUNAN JALAN TOL AKSES PATIMBAN**  
**PAKET 1,2,3,4**



**2023**



**KEMENTERIAN PEKERJAAN UMUM DAN PERUMAHAN RAKYAT**  
**DIREKTORAT JENDERAL BINA MARGA**

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Jakarta, 12 April 2023

Nomor : BM 0603- Db/461  
Sifat : Segera  
Lampiran : 1 (satu) Berkas  
Hal : Persetujuan Penggunaan Spesifikasi Khusus  
Proyek Pembangunan Jalan Tol Akses Patimban  
Paket 1,2,3,4

Yth.

1. Sekretaris Direktorat Jenderal Bina Marga
2. Para Direktur di Direktorat Jenderal Bina Marga
3. Para Kepala Balai Besar/Balai Pelaksanaan Jalan Nasional
4. Para Kepala Satuan Kerja di Direktorat Jenderal Bina Marga

di-

Tempat

1. Bersama ini disampaikan Dokumen Spesifikasi Khusus, sebagai berikut:

No.	Judul Dokumen
1.	Proyek Pembangunan Jalan Tol Akses Patimban Paket 1,2,3,4

2. Spesifikasi Khusus tersebut telah disetujui untuk dipergunakan di Direktorat Jenderal Bina Marga dan dimaksudkan untuk menjadi acuan bagi para pemangku kepentingan di Direktorat Jenderal Bina Marga dalam pelaksanaan pekerjaan terkait dengan pekerjaan Proyek Pembangunan Jalan Tol Akses Patimban Paket 1,2,3,4.

Demikian disampaikan, untuk dapat dipergunakan dengan penuh tanggung jawab.

**Direktur Jenderal Bina Marga,**

**Hedy Rahadian**

NIP 19640314 199003 1 002

Tembusan:

1. Menteri Pekerjaan Umum dan Perumahan Rakyat, sebagai laporan;
2. Sekretaris Jenderal, Kementerian Pekerjaan Umum dan Perumahan Rakyat;
3. Inspektur Jenderal, Kementerian Pekerjaan Umum dan Perumahan Rakyat;
4. Direktur Jenderal Bina Konstruksi, Kementerian Pekerjaan Umum dan Perumahan Rakyat.

## **DIVISI 1 UMUM**

### **SPESIFIKASI KHUSUS**

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SALINAN

**SS 1.09 KANTOR DAN FASILITAS LAPANGAN**

Pasal ini harus dibaca bersamaan dengan Pasal S1.09 dari Spesifikasi Umum yang dimodifikasi sebagai berikut:

**SS 1.09 (1) Ketentuan Pasal S1.09 (1) dari Spesifikasi Umum harus berlaku**

**SS 1.09 (2) Ketentuan Pasal S1.09 (2) dari Spesifikasi Umum harus berlaku**

**SS 1.09 (3) Kantor Pengguna Jasa**

(a) Umum

Pengguna Jasa berhak untuk mengambil tindakan yang tepat dan membebaskan semua biaya terkait dengan keterlambatan Penyedia Jasa jika Penyedia Jasa belum menyelesaikan bangunan kantor dan menyediakan kantor beserta fasilitasnya, sebagaimana diatur di dalam Pasal ini, dalam waktu yang ditetapkan pada Pasal 1.20 dari Spesifikasi Umum.

Penyedia Jasa akan bertanggung jawab untuk semua perbaikan, biaya pelayanan dan pemeliharaan termasuk keamanan, sarana komunikasi, dan kebersihan untuk seluruh area kantor beserta fasilitasnya.

Kantor dan fasilitas lapangan, termasuk kendaraan, harus diberikan dalam keadaan baru dan harus dikembalikan kepada Penyedia Jasa selambat-lambatnya 30 hari setelah tanggal *Taking Over Certificate* (TOC) atau *Provisional Hand Over* (PHO). Setelah pengembalian kantor kepada Penyedia Jasa, Penyedia Jasa harus membongkar kantor dan mengembalikan lahan sesuai kondisi semula.

(b) Kantor

Kantor harus disediakan oleh Penyedia Jasa untuk Pengguna Jasa dengan ukuran, perlengkapan, dan fasilitas seperti yang diberikan pada Tabel SS.1.09.1.

Lahan untuk kantor tidak disediakan oleh Pengguna Jasa, penyediaan lahan tersebut harus menjadi tanggung jawab Penyedia Jasa. Namun, Pengguna Jasa dapat memberikan izin untuk membangun kantor di dalam ruang milik jalan (*right of way*) proyek bila ada lahan yang tersedia. Lokasi kantor harus disetujui oleh Pengguna Jasa.

Penyedia Jasa bertanggungjawab untuk mendapatkan semua izin dan/atau persetujuan lain yang diperlukan untuk pembangunan kantor. Alternatif sewa kantor dapat disediakan oleh Penyedia Jasa setelah mendapat persetujuan dari Pengguna Jasa.

Kantor harus memenuhi semua persyaratan bangunan dan peraturan yang berlaku. Bahan, peralatan, dan perabotan yang digunakan dalam bangunan haruslah baru dan berfungsi dengan baik.

Penyedia Jasa wajib membuat dan menyerahkan gambar kerja kantor secara terinci termasuk detail peralatan dan spesifikasinya, serta harus mendapatkan persetujuan dari Pengguna Jasa sebelum penyediaan kantor dan fasilitas.

**Tabel SS.1.09.1 Kantor dan Fasilitas Lapangan**

No.	Keterangan	Spesifikasi (Persyaratan Minimum)	Kuantitas Minimum
<b>1</b>	<b>Kantor</b>		
1.1	Bangunan kantor dengan <i>air conditioning</i> dan perlengkapannya	Minimum luas lantai seperti yang tertulis, dengan 3 ruang kerja pimpinan, 3 ruang pengawas, ruang tamu dan ruang tunggu, ruang konferensi, ruang rapat, ruang staf, ruang penyimpanan arsip, ruang ibadah (mushola), dapur, 4 toilet, dan 2 ruang kosong. Persyaratan rinci akan diberikan setelah penandatanganan kontrak	300 m <sup>2</sup>
1.2	Area parkir kendaraan	Area parkir kendaraan harus disesuaikan dengan jumlah kendaraan minimum untuk parkir dan bergerak secara nyaman	200 m <sup>2</sup>
1.3	Bangunan tempat tinggal	Minimum luas lantai seperti yang tertulis, terdiri dari 3 ruang tidur lengkap dengan tempat tidur dan lemari pakaian, berpenyejuk udara (AC), 1 kamar mandi dan WC di dalam, 1 kamar mandi dan WC di luar, 1 kamar tamu dilengkapi 1 set meja kursi tamu (5 orang)	80 m <sup>2</sup>
<b>2.</b>	<b>Fasilitas</b>		
<b>2.1</b>	<b>Komputer, Perangkat Keras, dan Perangkat Lunak</b>		
2.1.a	Komputer PC dengan monitor layar sentuh 23 inci termasuk UPS, <i>stabilizer</i> , dan aksesoris.	<i>4-core processor</i> HDD 2TB + 256GB SSD, VGA 8GB, Konektivitas <i>WiFi</i> , termasuk OS, <i>Touch Screen</i> , Garansi terbatas 1 tahun oleh distributor resmi, dan merujuk SS1.09 (3) (a)	5
2.1.b	<i>Notebook</i> dengan <i>unlimited mobile broadband</i> (modem) dan aksesoris	<i>4-core processor</i> 13", HDD 2TB SSD, <i>Memory</i> 32GB, Konektivitas <i>WiFi</i> , termasuk OS, Garansi terbatas 1 tahun oleh distributor resmi, dan merujuk SS1.09 (3) (a).	4
2.1.c	<i>Hard Disk</i> eksternal SSD kapasitas 2 TB	USB 3.0, 2 TB	9
2.1.d	<i>Printer A3 color laser jet</i>	A3, <i>Print Resolution</i> 600 x 600 Dpi, <i>Print Speed Black/Color</i> 27 / 27 Ppm, <i>NIC</i> , <i>Duplex</i> , <i>Parallel</i> , dan USB	1
2.1.e	<i>Printer A4 color laser jet</i>	A4, <i>Print Resolution</i> 1200 x 600 Dpi, <i>Print Speed Black/Color</i> 30/30 Ppm, dan USB	2
2.1.f	Mesin Fotokopi dan <i>Network Document Sharing Machine</i>	A3 <i>Color Copy/Print/Scan</i> , 30 ppm, dan <i>network document sharing</i>	1
2.1.g	Proyektor	Resolusi 1280x800, <i>HDMI input</i> , <i>Lumens</i> 3800 ANSI, dan Garansi terbatas 1 (satu) tahun oleh distributor resmi	1

No.	Keterangan	Spesifikasi (Persyaratan Minimum)	Kuantitas Minimum
<b>2.2</b>	<b>Kamera dan Handycam</b>		
2.2.a	Kamera poket termasuk tas	18,2 Megapixel, 20 x Optical Zoom, 3,0" LCD, WiFi, Optical Steady Shot Image Stabilizer, termasuk Memory Card 32 GB	5
2.2.b	Drone camera professional quadcopter drone flying HD action video camera	Remot Kontrol Airplanes dengan 4 Set Propeller, 20 MP Video Camera 4K 3849 x 2160 video recording, Advanced GPS dan programmable features, Smartphone Mounts to Controller, Supports Dual Flight Modes, auto return base home, rechargeable Li-ion battery, support both 2,4 GHz, dan 5,8 GHz Frequency, dan Garansi terbatas 1 (satu) tahun oleh distributor resmi	2
<b>2.3</b>	<b>Perangkat Elektronik</b>		
2.3.a	LED Smart TV 85 inci termasuk wall mount bracket dengan water pass dan TV cable line	85" 4K 3840 x 2160, HDR, Smart TV	1
2.3.b	Closed Circuit Television (CCTV) System With 4 Camera	Indoor & Outdoor, Support WiFi connection, 5 Megapixel Infrared Capacity 1TB	1
2.3c	Webcam Teleconference Set	Ultra wide Webcam dengan speaker and expansion microphone untuk 8~10 orang, termasuk USB dan remot kontrol	1 set
<b>2.4</b>	<b>Perabotan</b>		
2.4.a	Kursi Kantor, Meja Tulis dan Lemari Buku	Ukuran meja 1,60 m x 0,80 m x 0,75 m	3
2.4.b	Kursi Kantor, Meja Tulis, dan Lemari Buku Untuk Ruang Manajer	Ukuran meja 1,60 m x 0,80 m x 0,75 m	3
2.4.c	Kursi Kantor Standar	Non-folding type	35
2.4.d	Meja Tulis Standar	Ukuran 1,60 m x 0,75 m	18
2.4.e	Sofa dan Meja	Kapasitas 6 (enam) orang	2
2.4.f	Meja dan Kursi Rapat	Kapasitas 8 (delapan) orang	1
2.4.g	Meja dan Kursi Konferensi	Kapasitas 20 (duapuluh) orang	1
2.4.h	Meja Keamanan	Kapasitas 2 (dua) orang	1

No.	Keterangan	Spesifikasi (Persyaratan Minimum)	Kuantitas Minimum
2.4.i	Papan Tulis dengan <i>Printing</i>	<i>Plain paper, color</i> , papan 920 mm x 1300 mm, 2 Panel, dan gUSB	1
2.4.j	Lemari Arsip Besi	2 pintu, 4 rak (80 cm x 43 cm x 163,2 cm)	9
2.4.k	Kabinet Sedang Terbuka	Area depan 80 cm x 43 cm x 122,9 cm	9
<b>2.5</b>	<b>Alat Komunikasi</b>		
2.5.a	<i>Handy talkie</i>	<i>All band transceiver power 5 VA include long stick</i>	10
2.5.b	<i>Base Station Ring Power</i> Termasuk Lisensi	<i>25 VA include power supply and omni directional Antenna 3/4λ</i>	1
2.5.c	<i>Mobile Rig Power</i> Termasuk Lisensi	<i>25 VA include mobile Antenna 3/4λ</i>	2
<b>2.6</b>	<b>Fasilitas Umum</b>		
2.6.a	Kulkas/ <i>Freezer</i>	2 (dua) pintu, (kapasitas 240 liter)	2
2.6.b	Kompore Gas	Termasuk 2 (dua) tabung gas	4
2.6.c	Dapur dengan Fasilitas	Termasuk peralatan makan, lemari, wastafel, cangkir, gelas, dll.	1 set
2.6.d	Dispenser Air Minum (Panas/Dingin)	Suhu panas, suhu pendinginan, dan Duo Galon	3
2.6.e	Langganan <i>Conference Meeting</i>	Langganan rapat telekonferensi untuk minimal 1000 orang selama masa konstruksi	-
2.6.f	Internet untuk Kantor	100 Mbps, selama masa konstruksi	-
2.6.g	Genset 50 kVA	Selama masa konstruksi	-

(c) Komputer

Rincian spesifikasi perangkat keras (*hardware*) harus diserahkan kepada Pengguna Jasa untuk mendapatkan persetujuan.

Penyediaan perangkat lunak (*software*) asli meliputi kategori berikut:

- 1) *Office Productivity Program (Professional)*, including word processing, slide show, and spreadsheet programs, etc.
- 2) Anti Virus
- 3) CAD 3D
- 4) *Software* pendukung BIM

Penyedia Jasa juga harus menyediakan semua kabel dan adaptor yang diperlukan untuk peralatan perangkat.



(d) Kendaraan

Penyedia Jasa harus menyediakan kendaraan baru untuk digunakan oleh Pengguna Jasa termasuk asuransi yang komprehensif (*all risk* dan pihak ketiga), kunci kemudi, alarm, perbaikan, pemeliharaan, pasokan bahan bakar, pelumas dan suku cadang, termasuk ban untuk masing-masing kendaraan, selama masa konstruksi. Jenis dan jumlah kendaraan harus disediakan seperti yang diberikan pada Tabel SS.1.09.2.

**Tabel SS.1.09.2 Spesifikasi Kendaraan**

No.	Jenis Kendaraan	Kuantitas Minimum
1.	<u>Type A</u> <i>Engine 2400 cc, Diesel, 2,4L 4N15 Turbocharged, Power 181 PS, Torque 430 Nm, 8-Speed Automatic Transmission (A/T), 7 seat</i>	2 Unit
2.	<u>Type B</u> <i>Engine 2400 cc, Diesel, 4WD Double Cabin, 4 Cylinders, In Line 16-Valve DOHC with VNT Intercooler, Power 149,6 PS, Torque 40,8 kgm, 6-speed Automatic Transmission (A/T), 4 seat</i>	2 Unit
3.	<u>Type C</u> <i>Engine 2000 cc, Gasoline or HYBRID, 4 cylinders, in-line 16-Valve DOHC, chain drive Dual VVT-i, Power 152 PS, Torque 19,1 kgm, e-CVT Transmission, 7 seats</i>	1 Unit
4.	<u>Sepeda Motor</u> <i>Off Road, 4-stroke, 4-Step, SOHC, 1-Cylinder, 148 cc, Air-cooled, SOHC, including crash helmet</i>	5 Unit

(e) Dasar Pembayaran

Kantor dan fasilitas sebagaimana ditentukan oleh Pasal ini akan dibayar sebagaimana yang diatur oleh Pasal S1.20 dari Spesifikasi Umum.

Pembayaran tersebut dianggap kompensasi penuh untuk penyediaan lahan, pembangunan, pengadaan, pelayanan, perbaikan, pemeliharaan, penyediaan peralatan, pembersihan, dan pembongkaran kantor setelah selesainya pekerjaan.

Pembayaran tersebut juga dianggap kompensasi penuh untuk kendaraan termasuk semua biaya sewa kendaraan, pemeliharaan dan servis yang ditentukan, gaji dan tunjangan untuk sopir dan penyediaan bahan bakar, pelumas dan suku cadang, termasuk ban untuk semua mobil dan sepeda motor selama masa konstruksi.

## **DIVISI 4 PEKERJAAN TANAH DAN GEOSINTETIK**

### **SPESIFIKASI KHUSUS**

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SS4.22 (4)	Dasar Pembayaran .....	1

## SS.4.22 PENYELIDIKAN TANAH

### SS.4.22 (1) Uraian

Pekerjaan ini harus terdiri dari penyelidikan tanah sebelum penggalian atau penempatan timbunan yang dilakukan pada alinyemen jalan atau seperti yang diarahkan oleh Konsultan Pengawas. Penyelidikan tanah yang dilakukan oleh Penyedia Jasa disesuaikan dengan jadwal konstruksi apabila diperlukan investigasi tanah lebih lanjut.

### SS.4.22 (2) Sondir (CPT) dan Sondir dengan *Piezocone* (CPT-u)

#### (a) Umum

Penyedia Jasa harus melakukan sondir (CPT), untuk setiap 200m timbunan yang akan ditempatkan, dan/atau sondir dengan *piezocone* (CPT-u) di setiap lokasi oprit, untuk memeriksa ulang profil tanah rinci di setiap lokasi, ketebalan tanah lunak, dan kedalaman lapisan tanah dasar di bawahnya, atau seperti diinstruksikan oleh Konsultan Pengawas.

#### (b) Metode Pengujian

Pengujian CPT dan CPT-u harus sesuai dengan persyaratan SNI 8460:2017. Pengujian akan dilakukan hingga tahanan ujung sebesar 25Mpa (250kg/sq.cm) atau sebagaimana diinstruksikan oleh Konsultan Pengawas. Hasil pengujian harus dilaporkan kepada Konsultan Pengawas sesegera mungkin tetapi tidak lebih dari 48 jam setelah selesainya setiap tahap pengujian.

### SS.4.22 (3) Metode Pengukuran

Pengujian CPT dan CPT-u harus diukur untuk maksud pembayaran sebagai panjang dari lubang yang dibor tidak peduli bahan apa yang dijumpai, seperti yang disetujui oleh Konsultan Pengawas.

### SS.4.22 (4) Dasar Pembayaran

Pembayaran akan dilakukan menurut kuantitas yang diukur di atas dengan harga dalam Daftar Kuantitas dan Harga (*Bill of Quantities*). Pembayaran harus sudah termasuk kompensasi penuh untuk pengujian CPT dan CPT-u, pencatatan dan penunjukkan hasil uji dalam format yang disetujui oleh Konsultan Pengawas.

Nomor Mata Pembayaran	Uraian	Satuan Pengukuran
SS 4.22(1)	Sondir (CPT) termasuk Laporan	Meter Panjang
SS 4.22(2)	Sondir dengan <i>Piezocone</i> (CPT-u) termasuk Uji Disipasi dan Laporan	Meter Panjang

## **DIVISI 10 STRUKTUR BETON**

### **SPESIFIKASI KHUSUS**

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SS10.03 (5)	Dasar Pembayaran .....	1

**SS.10.03      BETON PRA-TEKAN (*PRESTRESSED CONCRETE*)**

Pasal ini harus dibaca bersamaan dengan Spesifikasi Umum Pasal S10.03 yang disesuaikan sebagai berikut.

**SS.10.03 (1)    Uraian**

Ketentuan Pasal S10.03 (1) dari Spesifikasi Umum harus berlaku.

**SS.10.03 (2)    Material**

Ketentuan Pasal S10.03 (2) dari Spesifikasi Umum harus berlaku.

**SS.10.03 (3)    Pelaksanaan Pekerjaan**

Ketentuan Pasal S10.03 (3) dari Spesifikasi Umum harus berlaku.

**SS.10.03 (4)    Metode Pengukuran**

Ketentuan Pasal S10.03 (4) dari Spesifikasi Umum harus berlaku.

**SS.10.03 (5)    Dasar Pembayaran**

Ketentuan yang sesuai dengan Pasal S10.03 (5) pada Spesifikasi Umum merupakan bagian dari pasal ini, dengan penambahan mata pembayaran sebagai berikut:

Nomor Mata Pembayaran	Uraian	Satuan Pengukuran
SS 10.03(4c)	Gelagar PC-U Panjang 19,00 - 19,99 m, H = 1,65 m (Tipe A), Penyediaan	Buah
SS 10.03(4d)	Gelagar PC-U Panjang 19,00 - 19,99 m, H = 1,65 m (Tipe A), Pemasangan	Buah
SS 10.03(4e)	Gelagar PC-U Panjang 20,00 - 20,99 m, H = 1,65 m (Tipe A), Penyediaan	Buah
SS 10.03(4f)	Gelagar PC-U Panjang 20,00 - 20,99 m, H = 1,65 m (Tipe A), Pemasangan	Buah
SS 10.03(4g)	Gelagar PC-U Panjang 21,00 - 21,99 m, H = 1,65 m (Tipe A), Penyediaan	Buah
SS 10.03(4h)	Gelagar PC-U Panjang 21,00 - 21,99 m, H = 1,65 m (Tipe A), Pemasangan	Buah
SS 10.03(4i)	Gelagar PC-U Panjang 22,00 - 22,99 m, H = 1,65 m (Tipe A), Penyediaan	Buah
SS 10.03(4j)	Gelagar PC-U Panjang 22,00 - 22,99 m, H = 1,65 m (Tipe A), Pemasangan	Buah
SS 10.03(4k)	Gelagar PC-U Panjang 23,00 - 23,99 m, H = 1,65 m (Tipe A), Penyediaan	Buah
SS 10.03(4l)	Gelagar PC-U Panjang 23,00 - 23,99 m, H = 1,65m (Tipe A), Pemasangan	Buah

<b>Nomor Mata Pembayaran</b>	<b>Uraian</b>	<b>Satuan Pengukuran</b>
SS 10.03(5c)	Gelagar PC-U Panjang 24,00 - 24,99 m, H = 1,65 m (Tipe B), Penyediaan	Buah
SS 10.03(5d)	Gelagar PC-U Panjang 24,00 - 24,99 m, H = 1,65m (Tipe B), Pemasangan	Buah
SS 10.03(5e)	Gelagar PC-U Panjang 25,00 - 25,99 m, H = 1,65 m (Tipe B), Penyediaan	Buah
SS 10.03(5f)	Gelagar PC-U Panjang 25,00 - 25,99 m, H = 1,65 m (Tipe B), Pemasangan	Buah
SS 10.03(5g)	Gelagar PC-U Panjang 26,00 - 26,99 m, H = 1,65 m (Tipe B), Penyediaan	Buah
SS 10.03(5h)	Gelagar PC-U Panjang 26,00 - 26,99 m, H = 1,65 m (Tipe B), Pemasangan	Buah
SS 10.03(5i)	Gelagar PC-U Panjang 27,00 - 27,99 m, H = 1,65 m (Tipe B), Penyediaan	Buah
SS 10.03(5j)	Gelagar PC-U Panjang 27,00 - 27,99 m, H = 1,65 m (Tipe B), Pemasangan	Buah
SS 10.03(5k)	Gelagar PC-U Panjang 28,00 - 28,99 m, H = 1,65 m (Tipe B), Penyediaan	Buah
SS 10.03(5l)	Gelagar PC-U Panjang 28,00 - 28,99 m, H = 1,65 m (Tipe B), Pemasangan	Buah
SS 10.03(6c)	Gelagar PC-U Panjang 29,00 - 29,99 m, H = 1,85 m (Tipe C), Penyediaan	Buah
SS 10.03(6d)	Gelagar PC-U Panjang 29,00 - 29,99 m, H = 1,85 m (Tipe C), Pemasangan	Buah
SS 10.03(6e)	Gelagar PC-U Panjang 30,00 - 30,99 m, H = 1,85 m (Tipe C), Penyediaan	Buah
SS 10.03(6f)	Gelagar PC-U Panjang 30,00 - 30,99 m, H = 1,85 m (Tipe C), Pemasangan	Buah
SS 10.03(6e)	Gelagar PC-U Panjang 31,00 - 31,99 m, H = 1,85 m (Tipe C), Penyediaan	Buah
SS 10.03(6f)	Gelagar PC-U Panjang 31,00 - 31,99 m, H = 1,85 m (Tipe C), Pemasangan	Buah
SS 10.03(6g)	Gelagar PC-U Panjang 32,00 - 32,99 m, H = 1,85m (Tipe C), Penyediaan	Buah
SS 10.03(6h)	Gelagar PC-U Panjang 32,00 - 32,99 m, H = 1,85 m (Tipe C), Pemasangan	Buah
SS 10.03(6i)	Gelagar PC-U Panjang 33,00 - 33,99 m, H = 1,85 m (Tipe C), Penyediaan	Buah
SS 10.03(6j)	Gelagar PC-U Panjang 33,00 - 33,99 m, H = 1,85 m (Tipe C), Pemasangan	Buah
SS 10.03(7c)	Gelagar PC-U Panjang 34,00 - 34,99 m, H = 1,85 m (Tipe D), Penyediaan	Buah



<b>Nomor Mata Pembayaran</b>	<b>Uraian</b>	<b>Satuan Pengukuran</b>
SS 10.03(7d)	Gelagar PC-U Panjang 34,00 - 34,99 m, H = 1,85 m (Tipe D), Pemasangan	Buah
SS 10.03(7e)	Gelagar PC-U Panjang 35,00 - 35,99 m, H = 1,85 m (Tipe D), Penyediaan	Buah
SS 10.03(7f)	Gelagar PC-U Panjang 35,00 - 35,99 m, H = 1,85 m (Tipe D), Pemasangan	Buah
SS 10.03(7g)	Gelagar PC-U Panjang 36,00 - 36,99 m, H = 1,85 m (Tipe D), Penyediaan	Buah
SS 10.03(7h)	Gelagar PC-U Panjang 36,00 - 36,99 m, H = 1,85 m (Tipe D), Pemasangan	Buah
SS 10.03(7i)	Gelagar PC-U Panjang 37,00 - 37,99 m, H = 1,85 m (Tipe D), Penyediaan	Buah
SS 10.03(7j)	Gelagar PC-U Panjang 37,00 - 37,99 m, H = 1,85 m (Tipe D), Pemasangan	Buah
SS 10.03(7k)	Gelagar PC-U Panjang 38,00 - 38,99 m, H = 1,85 m (Tipe D), Penyediaan	Buah
SS 10.03(7l)	Gelagar PC-U Panjang 38,00 - 38,99 m, H = 1,85 m (Tipe D), Pemasangan	Buah
SS 10.03(8c)	Gelagar PC-U Panjang 40,75 m, H = 1,85 m (Tipe E), Penyediaan	Buah
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## **DIVISI 10 STRUKTUR BETON**

### **SPESIFIKASI KHUSUS**

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**SS10.11 LANDASAN JEMBATAN (*BRIDGE BEARINGS*)**

Pasal ini harus dibaca bersamaan dengan Spesifikasi Umum Pasal S10.11 yang disesuaikan sebagai berikut.

**SS10.11 (1) Uraian**

Ketentuan Pasal S10.11 (1) dari Spesifikasi Umum harus berlaku.

**SS10.11 (2) Material**

Ketentuan Pasal S10.11 (2) dari Spesifikasi Umum harus berlaku.

**SS10.11 (3) Pelaksanaan Pekerjaan**

Ketentuan Pasal S10.11 (3) dari Spesifikasi Umum harus berlaku.

**SS10.11 (4) Metode Pengukuran**

Ketentuan Passal S10.11 (4) dari Spesifikasi Umum harus berlaku.

**SS10.11 (5) Dasar Pembayaran**

Ketentuan Pasal S10.11 (5) dari Spesssifikasi Umum harus berlaku dengan tambahan mata pembayaran sebagai berikut:

Nomor Mata Pembayaran	Uraian	Satuan Pengukuran
SS10.11(49)	<i>Elastomeric Bearing Pad 500x200x38 (Mov)</i>	Buah
SS10.11(50)	<i>Elastomeric Bearing Pad 500x200x29 (Fix)</i>	Buah



**REPUBLIC OF INDONESIA**  
**MINISTRY OF PUBLIC WORKS AND HOUSING**  
**DIRECTORATE GENERAL OF HIGHWAYS**

**SPECIAL SPECIFICATION**



**PATIMBAN ACCESS *TOLL ROAD CONSTRUCTION PROJECT***  
***PACKAGE 1,2,3,4***



2023

## **DIVISION 1 GENERAL**

### **SPECIAL SPECIFICATION**

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SALINAN

**SS 1.09 PROJECT SITE OFFICE AND FACILITIES**

This Specification shall be read in conjunction with Clause S1.09 of the General Specifications with modification as follows.

**SS 1.09 (1) The provisions in Clause S1.09 (1) of the General Specifications shall apply.**

**SS 1.09 (2) The provisions in Clause S1.09 (2) of the General Specifications shall apply.**

**SS 1.09 (3) Employer's Office**

(a) General

The Employer will be entitled to take appropriate action and to charge all the relevant expenses caused by delays to the Contractor if the Contractor has not completed and provided the office with its facilities, as described in this Clause, within the period stated in Clause 1.20 of the General Specifications.

The Contractor shall be responsible for all repairs, service and maintenance costs including security, communication facilities, and cleanliness for the office area and its facilities.

The office and site facilities, including vehicles, shall be supplied in new condition and shall be returned to the Contractor no longer than 30 days after the date of Taking Over Certificate (TOC) or Provisional Hand Over (PHO).

Upon return of the office to the Contractor, the Contractor shall dismantle the office and restore the site to its original condition.

(b) Office

Office shall be provided by the Contractor to the Employer with the dimensions, equipment, and facilities as given in Table SS.1.09.1

Land for office will not be provided by the Employer; the provision of such land shall be the responsibility of the Contractor. However, the Employer may give permission to construct the office within the project's right-of-way when land is available. The location of the office shall be approved by Employer.

The Contractor shall be responsible for obtaining all permits and/or any other approvals necessary for construction of the office. Alternatively rented office may be provided by the Contractor subject to approval of the Employer.

The office shall comply with all building requirements and regulations. Materials, equipment, and furnishings used in the building shall be new and serviceable for its required purpose.

The Contractor shall prepare and submit detailed working drawings including equipment and specifications, and shall obtain approval from the Employer before provision of the office and facilities.



**Tabel SS.1.09.1 Office and Site Facilities**

No.	Description	Specification (Minimum Requirement)	Minimum Quantity
<b>1</b>	<b>Office</b>		
1.1	Office Building with air conditioning and utilities	Minimum floor area as stated with 3 executive rooms, 3 supervisor rooms, display and lobby area, conference room, meeting room, staffing room, archives room, praying room (mushola), kitchen, 4 toilet, and 2 free rooms. Exact requirements to be supplied after signing contract.	300 m <sup>2</sup>
1.2	Parking area	Parking area shall be suited for the minimum vehicles required to comfortably park and move around.	200 m <sup>2</sup>
1.3	Residential building	Minimum floor area as stated with 3 bedrooms with beds and wardrobe, air conditioning (AC), 1 bathroom and toilet inside bedroom, 1 bathroom and toilet, 1 guest bedroom, furniture set for guestroom (5 people).	80 m <sup>2</sup>
<b>2.</b>	<b>Facilities</b>		
<b>2.1</b>	<b>Computer, Hardware, and Software</b>		
2.1.a	PC Computer with touch screen monitor 23 inch include UPS, stabilizer, and accessories	4-core processor HDD 2 TB + 256 GB SSD, VGA 8GB, WiFi Connectivity, include OS, Touch Screen, 1-year Limited Warranty by Authorized Distributor, and refer to SS1.09 (3) (a).	5
2.1.b	Notebook with unlimited mobile broadband (modem) and accessories	4-core processor, 13", HDD 2TB SSD, Memory 32GB, WiFi Connectivity, include OS, 1-year Limited Warranty by Authorized Distributor, and refer to SS1.09 (3) (a).	4
2.1.c	External Hard Disk SSD capacity 2 TB	USB 3.0, 2TB	9
2.1.d	Printer A3 color laser jet	A3, Print Resolution 600x600Dpi, Print Speed Black/Color 27/27Ppm, NIC, Duplex, Parallel, and USB	1
2.1.e	Printer A4 color laser jet	A4, Print Resolution 1200x600Dpi, Print Speed Black/Color 30/30Ppm, and USB	2
2.1.f	Photocopy and network document sharing machine	A3 Color Copy/Print/Scan, 30Ppm, and Network document sharing	1
2.1.g	Projector	Resolution 1280x800, HDMI input, Lumens 3800 ANSI, and 1-year Limited Warranty by Authorized Distributor.	1

No.	Description	Specification (Minimum Requirement)	Minimum Quantity
<b>2.2</b>	<b>Camera dan Handycam</b>		
2.2.a	Pocket camera include bag	18,2 Megapixel, 20x Optical Zoom, 3,0" LCD, WiFi, Optical Steady Shot Image Stabilizer, including Memory Card 32GB.	5
2.2.b	Drone camera-professional quadcopter drone flying HD action video camera	An Remote Control Airplanes with 4 Set Propeller, 20 MP Video Camera 4K 3849 x 2160 video recording, Advanced GPS and programmable features, Smartphone Mounts to Controller, Supports Dual Flight Modes, auto return base home, rechargeable Li-ion battery, support both 2,4GHz and 5,8GHz Frequency. and 1-year Limited Warranty by Authorized Distributor	2
<b>2.3</b>	<b>Elektronics</b>		
2.3.a	LED Smart TV 85 inch include wall mount bracket with water pass and TV cable line	85" 4K 3840 x 2160, HDR, and Smart TV	1
2.3.b	Closed Circuit Television (CCTV) system with 4 camera	Indoor & Outdoor, Support WiFi connection, and 5 Megapixel Infrared Capacity 1TB	1
2.3.c	Webcam teleconference set	Ultra wide Webcam with speaker, expansion microphone for 8 – 10 people, include USB and remote control	1 set
<b>2.4</b>	<b>Furniture</b>		
2.4.a	Office chair, writing desk, and bookcase	Desk dimension 1,60 m x 0,80 m x 0,75 m	3
2.4.b	Office chair, writing desk, and bookcase for manager room	Desk dimension 1,60 m x 0,80 m x 0,75 m	3
2.4.c	Standard office chairs	Non-folding type	35
2.4.d	Standard writing desk	Dimension 1,60 m x 0,75 m	18
2.4.e	Sofa and table	Capacity 6 (six) people	2
2.4.f	Meeting table and chair	Capacity 8 (eight) people	1
2.4.g	Conference table and chairs	Capacity 20 (twenty) people	1
2.4.h	Security desk	Capacity 2 (two) people	1

No.	Description	Specification (Minimum Requirement)	Minimum Quantity
2.4.i	Whiteboard with printing	Plain paper, color, board 920 mm x1300 mm, 2 Panel, and USB	1
2.4.j	Metal filing cabinets	2 doors, 4 shelves (80 cm x 43 cm x 163,2 cm)	9
2.4.k	Open medium cabinets	Front area 80 cm x 43 cm x 122,9 cm	9
<b>2.5</b>	<b>Communication Devices</b>		
2.5.a	Handy talkie	All band transceiver power 5 VA include long stick	10
2.5.b	Base station ring power including licence	25 VA include power supply and omni directional Antenna 3/4λ	1
2.5.c	Mobile rig power including license	25 VA include mobile Antenna 3/4λ	2
<b>2.6</b>	<b>General Facilities</b>		
2.6a	Refrigerator/Freezer	2 (two) doors, (capacity 240 liters)	2
2.6b	Burner gas stoves	Including 2 (two) gas bottles	4
2.6c	Kitchen with facilities	Includes tableware, cupboard, sink, cups, glasses, etc.	1 set
2.6d	Drinking water dispenser (hot/cold)	Hot temperature, cooling temperature, and duo gallon	3
2.6e	Conference meeting subscription	Teleconference meeting subscription for a minimum of 1000 pax during construction period	-
2.6f	Internet for office	100Mbps, during construction period	-
2.6g	Genset 50 kVA	During construction period	-

(c) Computer

The hardware details and specifications shall be submitted to the Employer for approval. Supply of original software includes the following:

- 1) Office Productivity Program (Professional), including word processing, slide show, and spreadsheet programs, etc.
- 2) Anti Virus
- 3) CAD 3D
- 4) Software compatible BIM

The Contractor shall also supply all cables and adaptors necessary to install the equipment and devices.

(d) Vehicles

The Contractor shall provide new vehicles for the exclusive use of the Employer including fully comprehensive insurance (all risk and third party), steering lock, alarm, repairs, maintenance and servicing, the supply of fuel, lubricants and spare parts, including tires for each vehicle for the duration of the Contract. The types and numbers of vehicles shall be provided as given in Table SS.1.09.2.

**Tabel SS.1.09.2 Vehicles Specifications**

No.	Vehicle Types	Minimum Quantity
1.	<u>Type A</u> Engine 2400 cc, Diesel, 2,4L 4N15 MIVEC Turbocharged, Power 181 PS, Torque 430 Nm, 8-Speed Automatic Transmission (A/T), 7 seat	2 Unit
2.	<u>Type B</u> Engine 2400 cc, Diesel, 4WD Double Cabin, 4 Cylinders, In Line 16-Valve DOHC with VNT Intercooler, Power 149,6 PS, Torque 40,8 kgm, 6-speed Automatic Transmission (A/T), 4 seat	2 Unit
3.	<u>Type C</u> Engine 2000 cc, Gasoline or HYBRID, 4 cylinders, in-line 16-Valve DOHC, chain drive Dual VVT-i, Power 152 PS, Torque 19,1 kgm, e-CVT Transmission, 7 seats	1 Unit
4.	<u>Motorcycle</u> Off Road, 4-stroke, 4-Step, SOHC, 1-Cylinder, 148 cc, Air-cooled, SOHC, including crash helmet	5 Unit

(e) Basis of Payment

Offices and facilities as specified by this Clause shall be paid for as provided in Clause 1.20 of the General Specifications.

Such payment shall be considered full compensation for provision of the site, constructing, furnishing, servicing, repairing, maintaining, providing utilities, cleaning, and removing upon completion of the works.

The payment shall also be considered full compensation for provision of the vehicles, all rental costs, maintenance and servicing as specified, salary and allowance for drivers and the supply of fuel, lubricants, and spare parts, including tires for all cars and motorcycles for the construction period.

## **DIVISION 4 ROAD EARTHWORK AND GEOSYNTHETICS WORK**

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## **SS.4.22 SOIL INVESTIGATION**

### **SS.4.22 (1) Description**

This work shall consist of soil investigations of sites before any excavation or embankment placing is undertaken on the road alignment or as directed by the Engineer. Investigations may be staged by the Contractor to suit the construction schedule if further soil investigation is required.

### **SS.4.22 (2) Cone Penetration Test (CPT) and Piezocone Penetration Test (CPT-u)**

#### **(a) General**

The Contractor shall take Cone Penetration Test (CPT), for every 200m of embankment to be placed, and/or Piezocone Penetration Test (CPT-u) at every location of approaches to structures (oprit), to confirm the detailed soil profile at each location, the thickness of the soft soil and the depth of the underlying bearing layer, or as directed by the Engineer.

#### **(b) Method of Testing**

The CPT and CPT-u tests shall conform to the requirements of SNI 8460:2017. The tests will be undertaken until the tip resistance exceeds 25Mpa (250 kg/sq.cm) or as instructed by the Engineer. The results of the testing shall be reported to the Engineer as soon as practicable but no later than 48 hours following the completion of each phase of testing.

### **SS.4.22 (3) Method of Measurement**

The CPT, and CPT-u tests shall be measured for payment purposes as the depth of holes drilled irrespective of the ground conditions encountered, as agreed by the Engineer.

### **SS.4.22 (4) Basis of Payment**

Payment will be made on the quantities as measured above and at the rates shown in the priced Bill of Quantities. The payment shall include full compensation for CPT and CPT-u tests, recording and presentation of the results in a form approved by the Engineer.

<b>Pay Item No.</b>	<b>Description</b>	<b>Unit of Measurement</b>
SS 4.22(1)	Cone Penetration Test (CPT) including Report	Linear Meter
SS 4.22(2)	Piezocone Penetration Test (CPT-u) including Dissipation Test and Report	Linear Meter

## **DIVISION 10 CONCRETE STRUCTURES**

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**SS.10.03      PRESTRESSED CONCRETE**

This clause shall be read in conjunction with Clause S10.03 with modification as follows.

**SS.10.03 (1)      Description**

The provisions in Clause S10.03(1) of the General Specifications shall apply.

**SS.10.03 (2)      Materials**

The provisions in Clause S10.03(2) of the General Specifications shall apply.

**SS.10.03 (3)      Construction**

The provisions in Clause S10.03(3) of the General Specifications shall apply.

**SS.10.03 (4)      Method of Measurement**

The provisions in Clause S10.03(4) of the General Specifications shall apply.

**SS.10.03 (5)      Basis of Payment**

The provisions in accordance with Clause S10.03 (5) of the General Specifications are part of this Clause, with the addition of the following pay items:

<b>Pay Item No.</b>	<b>Description</b>	<b>Unit of Measurement</b>
SS 10.03(4c)	PC-U Girder Length 19,00 - 19,99 m, H = 1,65 m (Type A), Furnished	Each
SS 10.03(4d)	PC-U Girder Length 19,00 - 19,99 m, H = 1,65 m (Type A), Erected	Each
SS 10.03(4e)	PC-U Girder Length 20,00 - 20,99 m, H = 1,65 m (Type A), Furnished	Each
SS 10.03(4f)	PC-U Girder Length 20,00 - 20,99 m, H = 1,65 m (Type A), Erected	Each
SS 10.03(4g)	PC-U Girder Length 21,00 - 21,99 m, H = 1,65 m (Type A), Furnished	Each
SS 10.03(4h)	PC-U Girder Length 21,00 - 21,99 m, H = 1,65 m (Type A), Erected	Each
SS 10.03(4i)	PC-U Girder Length 22,00 - 22,99 m, H = 1,65 m (Type A), Furnished	Each
SS 10.03(4j)	PC-U Girder Length 22,00 - 22,99 m, H = 1,65 m (Type A), Erected	Each
SS 10.03(4k)	PC-U Girder Length 23,00 - 23,99 m, H = 1,65 m (Type A), Furnished	Each
SS 10.03(4l)	PC-U Girder Length 23,00 - 23,99 m, H = 1,65 m (Type A), Erected	Each

<b>Pay Item No.</b>	<b>Description</b>	<b>Unit of Measurement</b>
SS 10.03(5c)	PC-U Girder Length 24,00 - 24,99 m, H = 1,65 m (Type B), Furnished	Each
SS 10.03(5d)	PC-U Girder Length 24,00 - 24,99 m, H = 1,65m (Type B), Erected	Each
SS 10.03(5e)	PC-U Girder Length 25,00 - 25,99 m, H = 1,65 m (Type B), Furnished	Each
SS 10.03(5f)	PC-U Girder Length 25,00 - 25,99 m, H = 1,65 m (Type B), Erected	Each
SS 10.03(5g)	PC-U Girder Length 26,00 - 26,99 m, H = 1,65 m (Type B), Furnished	Each
SS 10.03(5h)	PC-U Girder Length 26,00 - 26,99 m, H = 1,65 m (Type B), Erected	Each
SS 10.03(5i)	PC-U Girder Length 27,00 - 27,99 m, H = 1,65 m (Type B), Furnished	Each
SS 10.03(5j)	PC-U Girder Length 27,00 - 27,99 m, H = 1,65 m (Type B), Erected	Each
SS 10.03(5k)	PC-U Girder Length 28,00 - 28,99 m, H = 1,65 m (Type B), Furnished	Each
SS 10.03(5l)	PC-U Girder Length 28,00 - 28,99 m, H = 1,65 m (Type B), Erected	Each
SS 10.03(6c)	PC-U Girder Length 29,00 - 29,99 m, H = 1,85 m (Type C), Furnished	Each
SS 10.03(6d)	PC-U Girder Length 29,00 - 29,99 m, H = 1,85 m (Type C), Erected	Each
SS 10.03(6e)	PC-U Girder Length 30,00 - 30,99 m, H = 1,85 m (Type C), Furnished	Each
SS 10.03(6f)	PC-U Girder Length 30,00 - 30,99 m, H = 1,85 m (Type C), Erected	Each
SS 10.03(6e)	PC-U Girder Length 31,00 - 31,99 m, H = 1,85 m (Type C), Furnished	Each
SS 10.03(6f)	PC-U Girder Length 31,00 - 31,99 m, H = 1,85 m (Type C), Erected	Each
SS 10.03(6g)	PC-U Girder Length 32,00 - 32,99 m, H = 1,85 m (Type C), Furnished	Each
SS 10.03(6h)	PC-U Girder Length 32,00 - 32,99 m, H = 1,85 m (Type C), Erected	Each
SS 10.03(6i)	PC-U Girder Length 33,00 - 33,99 m, H = 1,85 m (Type C), Furnished	Each
SS 10.03(6j)	PC-U Girder Length 33,00 - 33,99 m, H = 1,85 m (Type C), Erected	Each
SS 10.03(7c)	PC-U Girder Length 34,00 - 34,99 m, H = 1,85 m (Type D), Furnished	Each
SS 10.03(7d)	PC-U Girder Length 34,00 - 34,99 m, H = 1,85 m (Type D), Erected	Each

<b>Pay Item No.</b>	<b>Description</b>	<b>Unit of Measurement</b>
SS 10.03(7e)	PC-U Girder Length 35,00 - 35,99 m, H = 1,85 m (Type D), Furnished	Each
SS 10.03(7f)	PC-U Girder Length 35,00 - 35,99 m, H = 1,85 m (Type D), Erected	Each
SS 10.03(7g)	PC-U Girder Length 36,00 - 36,99 m, H = 1,85 m (Type D), Furnished	Each
SS 10.03(7h)	PC-U Girder Length 36,00 - 36,99 m, H = 1,85 m (Type D), Erected	Each
SS 10.03(7i)	PC-U Girder Length 37,00 - 37,99 m, H = 1,85 m (Type D), Furnished	Each
SS 10.03(7j)	PC-U Girder Length 37,00 - 37,99 m, H = 1,85 m (Type D), Erected	Each
SS 10.03(7k)	PC-U Girder Length 38,00 - 38,99 m, H = 1,85 m (Type D), Furnished	Each
SS 10.03(7l)	PC-U Girder Length 38,00 - 38,99 m, H = 1,85 m (Type D), Erected	Each
SS 10.03(8c)	PC-U Girder Length 40,75 m, H = 1,85 m (Type E), Furnished	Each
SS 10.03(8d)	PC-U Girder Length 40,75 m, H = 1,85 m (Type E), Erected	Each
SS 10.03(19)	Corrugated Steel Deck	Square Meter

## **DIVISION 10 CONCRETE STRUCTURES**

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**SS10.11 BRIDGE BEARINGS**

This clause shall be read in conjunction with Clause S10.11 with modification as follows

**SS10.11 (1) Description**

The provisions in Clause S10.11 (1) of the General Specifications shall apply.

**SS10.11 (2) Materials**

The provisions in Clause S10.11 (2) of the General Specifications shall apply.

**SS10.11 (3) Construction**

The provisions in Clause S10.11 (3) of the General Specifications shall apply.

**SS10.11 (4) Method of Measurement**

The provisions in Clause S10.11 (4) of the General Specifications shall apply.

**SS10.11 (5) Basis of Payment**

The The provisions in accordance with Clause S10.11 (5) of the General Specifications are part of this Clause, with the addition of the following pay items:

Pay Item No.	Description	Unit of Measurement
SS10.11(49)	Elastomeric Bearing Pad 500x200x38 (Mov)	Each
SS10.11(50)	Elastomeric Bearing Pad 500x200x29 (Fix)	Each