



**KERANGKA ACUAN KERJA
(TERM OF REFERENCE)**

**KELUARAN (*OUTPUT*) KEGIATAN PENGADAAN DAN PEMASANGAN PERLENGKAPAN
JALAN PADA RUAS JALAN NASIONAL PROVINSI SUMATERA UTARA**

TAHUN ANGGARAN 2024

KEMENTERIAN NEGARA/LEMBAGA : KEMENTERIAN PERHUBUNGAN
**UNIT ESELON I/II : DIREKTORAT JENDERAL PERHUBUNGAN DARAT/
DIREKTORAT LALU LINTAS JALAN**
PROGRAM : PROGRAM INFRASTRUKTUR KONEKTIVITAS
**KEGIATAN : KESELAMATAN DAN KEAMANAN TRANSPORTASI
DARAT**
KLASIFIKASI RINCIAN OUTPUT : SARANA BIDANG KONEKTIVITAS DARAT
**HASIL (OUTCOME) : MENINGKATNYA KESELAMATAN TRANSPORTASI
DARAT**
**VOLUME : 120.000 m' Marka Jalan, 8200 Buah Paku Jalan,
930 Unit Rambu Lalu Lintas 75 cm x 75 cm, 120
Unit LPJU Solar Cell, 22 Unit Lampu Peringatan
Jalan Solar Cell**

**KEMENTERIAN PERHUBUNGAN
DIREKTORAT JENDERAL PERHUBUNGAN DARAT
BALAI PENGELOLA TRANSPORTASI DARAT KELAS II
SUMATERA UTARA**

A. LATAR BELAKANG

1. Dasar Hukum

Secara umum kegiatan penyediaan perlengkapan jalan yang berkaitan langsung dengan pengguna jalan dilakukan dengan mengaju pada ketentuan yang diatur pada:

- a. Undang-Undang Nomor 22 Tahun 2009 tentang Lalu Lintas dan Angkutan Jalan;
- b. Undang-Undang Nomor 17 Tahun 2007 tentang Rencana Pembangunan Jangka Panjang Nasional Tahun 2005 – 2025;
- c. Peraturan Pemerintah Nomor 32 Tahun 2011 tentang Manajemen dan Rekayasa, Analisis Dampak serta Manajemen Kebutuhan Lalu Lintas;
- d. Peraturan Pemerintah Nomor 79 Tahun 2013 tentang Jaringan Lalu Lintas Dan Angkutan Jalan;
- e. Peraturan Pemerintah Nomor 21 Tahun 2004 tentang Penyusunan Rencana Kerja dan Anggaran Kementerian Negara/Lembaga;
- f. Peraturan Presiden Nomor 2 Tahun 2015 Nomor 2 Tahun 2015 tentang Rencana Pembangunan Jangka Menengah Nasional Tahun 2015-2019;
- g. Peraturan Menteri Perhubungan Nomor PM 3 Tahun 2014 tentang Pedoman Penyusunan Rencana Kerja dan Anggaran di lingkungan Kementerian Perhubungan;
- h. Peraturan Menteri Perhubungan Nomor 34 Tahun 2014 tentang Marka Jalan;
- i. Peraturan Menteri Perhubungan Nomor 13 Tahun 2014 tentang Rambu Lalu Lintas;
- j. Peraturan Menteri Perhubungan Nomor 49 Tahun 2014 tentang Alat Pemberi Isyarat Lalu Lintas;
- k. Peraturan Menteri Perhubungan Nomor 96 Tahun 2015 tentang Pedoman Pelaksanaan Manajemen dan Rekayasa lalu Lintas;
- l. Peraturan Menteri Perhubungan Nomor 27 Tahun 2018 tentang Alat Penerangan Jalan;

- m. Keputusan Menteri Pekerjaan Umum dan Perumahan Rakyat Nomor 430/KPTS/M/2022 tentang Penetapan Ruas Jalan dalam jaringan jalan primer menurut fungsinya sebagai jalan arteri (JAP) dan jalan kolektor-1 (JKP-1);
- n. Peraturan Menteri Perhubungan Nomor PM 82 Tahun 2018 tentang Alat Pengendali dan Pengaman Jalan;
- o. Peraturan Menteri Perhubungan Republik Indonesia Nomor PM 6 Tahun 2023 Tentang Organisasi dan Tata Kerja Balai Pengelola Transportasi Darat;
- p. Peraturan Direktur Jenderal Perhubungan Darat Nomor SK.7234/AJ.401/DRJD/2013 tentang Petunjuk Teknis Perlengkapan Jalan.

2. Gambaran Umum

Berdasarkan Undang-Undang No 22 Tahun 2009 tentang Lalu Lintas dan Angkutan Jalan Pasal 25 secara jelas diamanahkan bahwa setiap jalan harus dilengkapi dengan perlengkapan jalan. Secara umum perlengkapan jalan dibagi 2 jenis yaitu perlengkapan jalan yang berkaitan langsung dengan pengguna jalan dan perlengkapan jalan yang tidak berkaitan langsung dengan pengguna jalan.

Pemerintah Pusat dalam hal ini Kementerian Perhubungan c.q. Ditjen Perhubungan Darat sebagaimana diatur dalam Undang-Undang Nomor 23 Tahun 2014 tentang Pemerintahan Daerah Lampiran huruf O. Pembagian Urusan Pemerintahan dibidang Perhubungan; secara jelas dinyatakan mempunyai tanggung jawab dalam urusan penyediaan perlengkapan jalan di jalan nasional.

Penyediaan perlengkapan jalan di jalan nasional secara prinsip mengacu pada Keputusan Menteri Pekerjaan Umum dan Perumahan Rakyat Nomor 430/KPTS/M/2022 tentang Penetapan Ruas Jalan dalam jaringan jalan primer menurut fungsinya sebagai jalan arteri (JAP) dan jalan kolektor-1

(JKP-1) yang secara eksplisit menyatakan nama-nama ruas jalan yang termasuk kategori jalan nasional.

Melalui Peraturan Menteri Perhubungan Nomor PM 6 Tahun 2023 Tentang Organisasi dan Tata Kerja Balai Pengelola Transportasi Darat, Balai Pengelola Transportasi Darat (BPTD) memiliki tugas dan fungsi dalam peningkatan keselamatan jalan salah satunya melalui pengadaan dan pemasangan perlengkapan jalan.

BPTD Kelas II Sumatera Utara memiliki panjang jalan nasional 2.6322 km. Secara bertahap BPTD telah melaksanakan Pengadaan dan Pemasangan Perlengkapan Jalan dari Tahun 2018 s/d 2023 dengan rincian sebagaimana table **I.I Kebutuhan dan Realisasi Perlengkapan Jalan.**

**TABEL 1
KEBUTUHAN DAN REALISASI MARKA JALAN
BPTD KELAS II SUMATERA UTARA**

NO.	NOMOR RUAS			NAMA RUAS	PANJANG RUAS (KM)	Marka (m')					
						Keb.	2020	2021	2022	2023	Backlog
1	001			BTS. PROV. ACEH - SIMPANG PANGKALAN SUSU	27,15	34.000	26.250	-	-	-	7.750
2	002			SIMPANG PANGKALAN SUSU - TANJUNG PURA	29,40	19.000	-	8.000	-	-	11.000
3	024			AEK KANOPAN – BTS KOTA RANTAU PARAPAT	66,12	10.000	-	-	-	-	10.000
4	025			BTS KOTA RANTAU PARAPAT – AEK NABARA	9,87	10.000	-	-	-	-	10.000
5	028			LAWE PAKAM(BTS.PROV ACEH) – KUTA BULUH	42,64	8.000	-	-	-	-	8.000
6	032			BTS KAB.DAIRI – DOLOK SANGGUL	49,41	19.000	940	10.000	-	-	8.060
7	033			DOLOK SANGGUL – SIBORONG BORONG	28,48	7.000	-	-	-	-	7.000
8	042			BTS.PROV.ACEH – SARAGIH- MANDUAMAS- BARUS	50,02	10.000	-	-	-	-	10.000
9	043			BARUS – BTS KOTA SIBOLGA	60,63	20.000	10.000	-	-	-	10.000
10	057			BTS.KAB KARO – PANJI	29,81	12.000	-	-	-	4.000	8.000
11	058			BTS.PROV. ACEH – BTS KOTA SIDIKALANG	39,87	10.000	-	-	-	-	10.000
12	059			MEREK – BTS.KAB.SIMALUNGUN	2,67	5.000	-	-	--	-	5.000
13	060			BTS.KAB KARO -SARIBU DOLOK	8,59	8.000	-	-	-	-	8.000
14	061			SARIBU DOLOK -TIGA RUNGGU	14,95	10.000	-	-	-	-	10.000
15	095			SIMANINDO -PANGURURAN	19,30	7.000	-	-	-	-	7.000

**TABEL 2
KEBUTUHAN DAN REALISASI RAMBU
BPTD KELAS II SUMATERA UTARA**

NO.	NOMOR RUAS			NAMA RUAS	PANJANG RUAS (KM)	Rambu (buah)					
						Keb.	2020	2021	2022	2023	Backlog
1	001			BTS. PROV. ACEH - SIMPANG PANGKALAN SUSU	27,15	310	232	-	-	-	78
2	002			SIMPANG PANGKALAN SUSU - TANJUNG PURA	29,40	120	-	51	-	-	69
3	024			AEK KANOPAN – BTS KOTA RANTAU PARAPAT	66,12	120	-	-	44	-	76
4	025			BTS KOTA RANTAU PARAPAT – AEK NABARA	9,87	264	191	-	-	-	72
5	028			LAWE PAKAM(BTS.PROV ACEH) – KUTA BULUH	42,64	236	-	130	-	-	106
6	032			BTS KAB.DAIRI – DOLOK SANGGUL	49,41	220	16	120	-	-	84
7	033			DOLOK SANGGUL – SIBORONG BORONG	28,48	84	-	-	-	-	84
8	042			BTS.PROV.ACEH – SARAGIH- MANDUAMAS- BARUS	50,02	42	-	-	-	-	42
9	043			BARUS – BTS KOTA SIBOLGA	60,63	150	103	-	-	-	47
10	057			BTS.KAB KARO – PANJI	29,81	84	-	-	-	35	49
11	058			BTS.PROV. ACEH – BTS KOTA SIDIKALANG	39,87	188	-	-	-	62	126
12	059			MEREK – BTS.KAB.SIMALUNGUN	2,67	24	-	-	-	-	24
13	060			BTS.KAB KARO -SARIBU DOLOK	8,59	72	-	-	-	-	72
14	061			SARIBU DOLOK -TIGA RUNGGU	14,95	72	-	-	-	-	72
15	095			SIMANINDO -PANGURURAN	19,30	56	-	-	-	-	56

TABEL 3
KEBUTUHAN DAN REALISASI PAKU JALAN
BPTD KELAS II SUMATERA UTARA

NO.	NOMOR RUAS			NAMA RUAS	PANJANG RUAS (KM)	Paku Jalan (buah)					
						Keb.	2020	2021	2022	2023	Backlog
1	001			BTS. PROV. ACEH - SIMPANG PANGKALAN SUSU	27,15	898	273	-	-	-	625
2	002			SIMPANG PANGKALAN SUSU - TANJUNG PURA	29,40	990	-	355	-	-	635
3	024			AEK KANOPAN – BTS KOTA RANTAU PARAPAT	66,12	614	-	-	-	-	614
4	025			BTS KOTA RANTAU PARAPAT – AEK NABARA	9,87	10.000	-	500	-	-	500
5	028			LAWE PAKAM(BTS.PROV ACEH) – KUTA BULUH	42,64	1.514	-	-	1.000	-	514
6	032			BTS KAB.DAIRI – DOLOK SANGGUL	49,41	1.430	-	82	828	-	520
7	033			DOLOK SANGGUL – SIBORONG BORONG	28,48	500	-	-	-	-	500
8	042			BTS.PROV.ACEH – SARAGIH- MANDUAMAS- BARUS	50,02	500	-	-	-	-	500
9	043			BARUS – BTS KOTA SIBOLGA	60,63	524	-	-	-	-	524
10	057			BTS.KAB KARO – PANJI	29,81	620	-	-	-	-	620
11	058			BTS.PROV. ACEH – BTS KOTA SIDIKALANG	39,87	714	-	-	-	-	714
12	059			MEREK – BTS.KAB.SIMALUNGUN	2,67	220	-	-	-	-	220
13	060			BTS.KAB KARO -SARIBU DOLOK	8,59	615	-	-	-	-	615
14	061			SARIBU DOLOK -TIGA RUNGGU	14,95	615	-	-	-	-	615
15	095			SIMANINDO -PANGURURAN	19,30	700	-	-	-	-	700

TABEL 6
KEBUTUHAN DAN REALISASI ALAT PENERANGAN JALAN
BPTD KELAS II SUMATERA UTARA

NO.	NOMOR RUAS			NAMA RUAS	PANJANG RUAS (KM)	Alat Penerangan Jalan (unit)					
						Keb.	2020	2021	2022	2023	Backlog
1	001			BTS. PROV. ACEH - SIMPANG PANGKALAN SUSU	27,15	12	-	-	-	-	12
2	002			SIMPANG PANGKALAN SUSU - TANJUNG PURA	29,40	25	-	9	6	-	10
3	024			AEK KANOPAN – BTS KOTA RANTAU PARAPAT	66,12	10	-	-	-	-	10
4	025			BTS KOTA RANTAU PARAPAT – AEK NABARA	9,87	35	35	-	-	-	-
5	028			LAWE PAKAM(BTS.PROV ACEH) – KUTA BULUH	42,64	56	-	26	-	20	10
6	032			BTS KAB.DAIRI – DOLOK SANGGUL	49,41	28	8	8	-	-	12
7	033			DOLOK SANGGUL – SIBORONG BORONG	28,48	12	-	-	-	-	12
8	042			BTS.PROV.ACEH – SARAGIH- MANDUAMAS- BARUS	50,02	18	-	-	8	-	10
9	043			BARUS – BTS KOTA SIBOLGA	60,63	42	24	-	8	-	10
10	057			BTS.KAB KARO – PANJI	29,81	30	-	-	-	20	10
11	058			BTS.PROV. ACEH – BTS KOTA SIDIKALANG	39,87	42	-	-	-	30	12
12	059			MEREK – BTS.KAB.SIMALUNGUN	2,67	10	-	-	-	-	10
13	060			BTS.KAB KARO -SARIBU DOLOK	8,59	10	-	-	-	-	10
14	061			SARIBU DOLOK -TIGA RUNGGU	14,95	10	-	-	-	-	10
15	095			SIMANINDO -PANGURURAN	19,30	10	-	-	-	-	10

TABEL 7
KEBUTUHAN DAN REALISASI WARNING LIGHT
BPTD KELAS II SUMATERA UTARA

NO.	NOMOR RUAS		NAMA RUAS	PANJANG RUAS (KM)	Warning Light (unit)					
					Keb.	2020	2021	2022	2023	Backlog
1	001		BTS. PROV. ACEH - SIMPANG PANGKALAN SUSU	27,15	6	4	-	-	-	2
2	002		SIMPANG PANGKALAN SUSU - TANJUNG PURA	29,40	4	-	2	-	-	2
3	024		AEK KANOPAN – BTS KOTA RANTAU PARAPAT	66,12	4	-	-	2	-	2
4	025		BTS KOTA RANTAU PARAPAT – AEK NABARA	9,87	2	-	-	-	-	2
5	028		LAWE PAKAM(BTS.PROV ACEH) – KUTA BULUH	42,64	6	-	4	-	-	2
6	032		BTS KAB.DAIRI – DOLOK SANGGUL	49,41	6	-	4	-	-	2
7	033		DOLOK SANGGUL – SIBORONG BORONG	28,48	4	-	-	-	-	4
8	042		BTS.PROV.ACEH – SARAGIH- MANDUAMAS- BARUS	50,02	2	-	-	-	-	2
9	043		BARUS – BTS KOTA SIBOLGA	60,63	2	-	-	-	-	2
10	057		BTS.KAB KARO – PANJI	29,81	4	-	-	-	-	4
11	058		BTS.PROV. ACEH – BTS KOTA SIDIKALANG	39,87	2	-	-	-	-	2
12	059		MEREK – BTS.KAB.SIMALUNGUN	2,67	2	-	-	-	-	2
13	060		BTS.KAB KARO -SARIBU DOLOK	8,59	2	-	-	-	-	2
14	061		SARIBU DOLOK -TIGA RUNGGU	14,95	2	-	-	-	-	2
15	095		SIMANINDO -PANGURURAN	19,30	2	-	-	-	-	2

1. Keb. diisi jumlah kebutuhan PJ
2. Kolom 2016-2023 diisi realisasi
3. Backlog diisi jumlah kebutuhan PJ dikurangi realisasi PJ sesuai umur teknis (2 tahun)

Selanjutnya mengingat besarnya *backlog* antara kebutuhan Perlengkapan Jalan dengan realisasi pemasangan, BPTD Kelas II Sumatera Utara memandang perlu untuk mengusulkan kegiatan Pengadaan dan Pemasangan Perlengkapan Jalan di Jalan Nasional Provinsi Sumatera Utara Dengan lokasi dan jenis usulan seperti tabel 10

Tabel 10
USULAN PENGADAAN DAN PEMASANGAN MARKA JALAN
TAHUN ANGGARAN 2024

NO.	NOMOR RUAS	NAMA RUAS	TITIK KOORDINAT		PANJANG RUAS (KM)	LEBAR JALAN (M)	Marka (M')
			LATITUDE	LONGITUDE			
1	001	BTS. PROV. ACEH - SIMPANG PANGKALAN SUSU					
		Titik awal	4.138785	98.065216	27,15	6,68	7.000
		Titik akhir	4.009733	98.224687			
2	002	SIMPANG PANGKALAN SUSU - TANJUNG PURA					
		Titik awal	4.009733	98.224687	29,40	6,68	10.000
		Titik akhir	3.897723	98.421268			
3	024	AEK KANOPAN – BTS KOTA RANTAU PARAPAT					
		Titik awal	2.567091	99.654258	66,12	8,48	10.000
		Titik akhir	2.112648,	99.809728			
4	025	BTS KOTA RANTAU PARAPAT – AEK NABARA					
		Titik awal	2.061266	99.861217	9,87	8,48	10.000
		Titik akhir	2.059459	99.954547			
5	028	LAWE PAKAM(BTS.PROV ACEH) – KUTA BULUH					
		Titik awal	3.049027	98.149152	42,64	7,71	8.000
		Titik akhir	3.281716	97.983932			
6	032	BTS KAB.DAIRI – DOLOK SANGGUL					
		Titik awal	2.582947	98.553486	49,41	7,13	8.000
		Titik akhir	2.258495	98.748135			
7	033	DOLOK SANGGUL – SIBORONG BORONG					
		Titik awal	2.258495	98.748135	28,48	7,13	7.000
		Titik akhir	2.214710	98.974928			

8	042	BTS.PROV.ACEH – SARAGIH- MANDUAMAS- BARUS					
		Titik awal	2.241115	98.174037	50,02	5,1	10.000
		Titik akhir	2.065498	98.408569			
9	043	BARUS – BTS KOTA SIBOLGA					
		Titik awal	1.743329	98.779597	60,63	7,0	10.000
		Titik akhir	2.065498	98.408569			
10	058	BTS.PROV. ACEH – BTS KOTA SIDIKALANG					
		Titik awal	2.628273	98.106231	39,87	6,5	10.000
		Titik akhir	2.724851	98.318501			
11	059	MEREK – BTS.KAB.SIMALUNGUN					
		Titik awal	2.946584	98.522949	2,67	8,55	5.000
		Titik akhir	2.937593	98.541223			
12	060	BTS.KAB KARO -SARIBU DOLOK					
		Titik awal	2.937593	98.541223	8,59	8,55	8.000
		Titik akhir	2.938427	98.610883			
13	061	SARIBU DOLOK -TIGA RUNGGU					
		Titik awal	2.938427	98.610883	14,95	8,55	10.000
		Titik akhir	2.896275	98.721397			
14	095	SIMANINDO -PANGURURAN					
		Titik awal	2.751607	98.745227	19,30	6,01	7.000
		Titik akhir	2.611795	98.695091			
TOTAL					388,47		12.000

Tabel 11
USULAN PENGADAAN DAN PEMASANGAN RAMBU JALAN
TAHUN ANGGARAN 2024

NO.	NO. RUAS	NAMA RUAS	TITIK KOORDINAT		PANJANG RUAS (KM)	LEBAR JALAN (M)	RAMBU BUAH
			LATITUDE	LONGITUDE			
1	001	BTS. PROV. ACEH - SIMPANG PANGKALAN SUSU	4°08'08.5"N	98°03'58.2"E	27,15	6,68	70
			4°08'05.6"N	98°04'00.4"E			
			4°08'05.6"N	98°04'03.2"E			
			4°07'59.9"N	98°04'06.3"E			
			4°07'59.5"N	98°04'06.7"E			
			4°07'58.3"N	98°04'07.3"E			
			4°07'56.9"N	98°04'07.6"E			
			4°07'56.0"N	98°04'08.1"E			
			4°07'44.9"N	98°04'15.8"E			
			4°07'44.3"N	98°04'16.4"E			
			4°07'44.9"N	98°04'15.8"E			
			4°07'38.4"N	98°04'20.3"E			
			4°07'33.4"N	98°04'22.5"E			
			4°07'32.0"N	98°04'22.9"E			
			4°07'32.0"N	98°04'22.9"E			
4°07'28.1"N	98°04'24.2"E						

			4°07'24.6"N 98°04'24.2"E 4°07'16.9"N 98°04'23.6"E 4°07'15.7"N 98°04'23.4"E 4°07'10.9"N 98°04'23.0"E 4°07'12.3"N 98°04'22.9"E 4°07'09.5"N 98°04'22.8"E 4°07'32.0"N 98°04'22.9"E 4°07'09.1"N 98°04'22.8"E 4°07'11.5"N 98°04'22.9"E 4°07'08.7"N 98°04'22.7"E 4°07'07.7"N 98°04'22.6"E 4°07'08.9"N 98°04'22.5"E 4°07'08.1"N 98°04'22.4"E 4°07'08.1"N 98°04'22.7"E 4°06'45.6"N 98°04'47.0"E 4°06'45.6"N 98°04'48.7"E 4°07'03.6"N 98°04'21.2"E 4°07'01.2"N 98°04'20.1"E 4°06'45.2"N 98°04'43.1"E 4°06'45.2"N 98°04'43.5"E 4°06'44.2"N 98°04'38.1"E 4°06'44.8"N 98°04'41.5"E 4°06'45.3"N 98°04'51.0"E 4°06'45.3"N 98°04'54.1"E 4°06'46.7"N 98°05'23.5"E 4°06'46.8"N 98°05'24.1"E 4°06'47.0"N 98°05'24.9"E 4°06'47.2"N 98°05'26.1"E 4°06'45.2"N 98°05'11.3"E 4°06'45.6"N 98°05'14.1"E 4°06'46.1"N 98°05'20.4"E 4°06'46.2"N 98°05'22.1"E 4°06'47.1"N 98°05'31.2"E 4°06'47.1"N 98°05'31.8"E 4°06'46.9"N 98°05'32.4"E 4°06'46.8"N 98°05'33.1"E 4°06'19.0"N 98°05'44.9"E 4°06'18.6"N 98°05'45.4"E 4°06'18.1"N 98°05'45.9"E 4°06'16.7"N 98°05'47.0"E 4°06'14.2"N 98°05'50.0"E 4°06'16.0"N 98°05'47.6"E 4°06'13.5"N 98°05'50.7"E 4°06'15.3"N 98°05'48.4"E 4°05'58.7"N 98°06'07.5"E 4°05'58.7"N 98°06'08.4"E 4°05'58.6"N 98°06'10.1"E 4°05'48.4"N 98°06'21.1"E 4°05'47.9"N 98°06'21.6"E 4°05'44.9"N 98°06'24.1"E 4°05'32.8"N 98°06'34.7"E 4°05'32.0"N 98°06'35.0"E 4°05'31.4"N 98°06'35.4"E 4°05'30.5"N 98°06'35.8"E			
2	002	SIMPANG PANGKALAN SUSU - TANJUNG PURA	4°00'13.2"N 98°13'46.4"E 4°00'10.1"N 98°13'56.0"E 4°00'09.6"N 98°13'56.7"E 4°00'08.1"N 98°13'58.7"E 4°00'07.6"N 98°13'59.3"E 3°59'59.0"N 98°14'01.1"E 3°59'58.7"N 98°14'00.7"E	29,40	6,68	60

			3°59'58.2"N 3°59'57.9"N 3°59'57.2"N 3°59'56.0"N 3°59'55.1"N 3°59'54.6"N 3°59'48.3"N 3°59'47.5"N 3°59'46.9"N 3°59'46.9"N 3°59'46.6"N 3°59'38.9"N 3°59'38.5"N 4°07'32.0"N 3°59'37.7"N 3°59'37.2"N 3°59'37.2"N 3°59'34.6"N 3°59'35.4"N 3°59'36.2"N 3°59'38.0"N 3°59'37.2"N 3°59'38.4"N 3°59'38.8"N 4°00'36.5"N 4°00'34.1"N 4°00'17.1"N 4°00'17.3"N 4°00'15.6"N 4°00'12.2"N 4°00'10.8"N 4°00'04.1"N 4°00'02.4"N 3°59'55.8"N 3°59'54.3"N 3°59'49.1"N 3°59'47.9"N 3°59'41.8"N 3°59'37.1"N 3°59'34.8"N 3°59'07.8"N 3°59'04.4"N 3°59'08.1"N 3°59'07.3"N 3°59'05.6"N 3°59'04.9"N 3°58'59.5"N 3°58'58.6"N 3°58'55.4"N 3°58'54.0"N 3°58'53.0"N 3°58'51.0"N 3°59'48.0"N	98°14'00.6"E 98°14'00.8"E 98°14'00.7"E 98°14'00.4"E 98°14'00.2"E 98°14'00.1"E 98°13'57.9"E 98°13'58.0"E 98°13'58.3"E 98°13'58.5"E 98°13'58.7"E 98°14'02.0"E 98°14'02.1"E 98°04'22.9"E 98°14'02.6"E 98°14'02.7"E 98°14'02.7"E 98°14'20.1"E 98°14'20.9"E 98°14'23.0"E 98°14'26.2"E 98°14'25.3"E 98°14'27.0"E 98°14'28.4"E 98°17'36.8"E 98°17'40.0"E 98°18'08.4"E 98°18'07.7"E 98°18'10.7"E 98°18'15.2"E 98°18'17.3"E 98°18'28.1"E 98°18'30.7"E 98°18'40.2"E 98°18'42.3"E 98°18'51.0"E 98°18'52.9"E 98°19'02.0"E 98°19'08.8"E 98°19'12.3"E 98°19'53.2"E 98°19'58.2"E 98°19'53.0"E 98°19'54.3"E 98°19'56.3"E 98°19'57.4"E 98°20'06.0"E 98°20'07.3"E 98°20'11.6"E 98°20'13.6"E 98°20'14.3"E 98°20'13.6"E 98°20'04.6"E			
3	024	AEK KANOPAN – BTS KOTA RANTAU PARAPAT	2°33'38.1"N 2°33'45.0"N 2°33'35.3"N 4°07'32.0"N 2°33'47.3"N 2°33'33.5"N 2°33'50.6"N 2°33'11.4"N	99°39'31.7"E 99°39'26.9"E 99°39'33.6"E 98°04'22.9"E 99°39'24.9"E 99°39'34.3"E 99°39'22.6"E 99°39'39.4"E	66,12	8,48	70

			2°33'06.1"N	99°39'39.2"E		
			2°33'16.4"N	99°39'39.0"E		
			2°33'13.8"N	99°39'39.2"E		
			2°33'16.2"N	99°39'39.2"E		
			2°33'19.5"N	99°39'39.1"E		
			2°33'15.0"N	99°39'38.8"E		
			2°33'10.3"N	99°39'38.9"E		
			2°33'12.4"N	99°39'38.8"E		
			2°33'17.1"N	99°39'38.8"E		
			2°33'16.3"N	99°39'38.8"E		
			2°32'51.7"N	99°39'39.4"E		
			2°32'49.2"N	99°39'39.3"E		
			2°32'50.9"N	99°39'39.4"E		
			2°32'54.1"N	99°39'39.3"E		
			2°32'56.1"N	99°39'39.3"E		
			2°32'45.7"N	99°39'39.4"E		
			2°32'55.1"N	99°39'39.3"E		
			2°32'53.2"N	99°39'39.3"E		
			2°32'46.8"N	99°39'39.4"E		
			2°32'44.3"N	99°39'39.4"E		
			2°32'57.4"N	99°39'39.3"E		
			2°32'47.2"N	99°39'39.1"E		
			2°32'42.2"N	99°39'39.1"E		
			2°32'46.0"N	99°39'39.0"E		
			4°07'32.0"N	98°04'22.9"E		
			2°32'51.1"N	99°39'39.0"E		
			2°32'35.7"N	99°39'39.1"E		
			2°32'53.9"N	99°39'39.0"E		
			2°32'52.8"N	99°39'39.1"E		
			2°32'49.2"N	99°39'39.0"E		
			2°32'47.7"N	99°39'39.2"E		
			2°32'40.3"N	99°39'39.1"E		
			2°32'44.8"N	99°39'38.9"E		
			2°32'38.4"N	99°39'39.2"E		
			2°32'44.8"N	99°39'39.3"E		
			2°32'45.8"N	99°39'39.2"E		
			2°32'44.5"N	99°39'39.2"E		
			2°32'44.5"N	99°39'40.2"E		
			2°32'44.5"N	99°39'40.8"E		
			2°32'44.5"N	99°39'39.8"E		
			2°32'44.5"N	99°39'40.5"E		
			2°32'41.8"N	99°39'39.1"E		
			2°32'46.3"N	99°39'39.2"E		
			2°32'41.6"N	99°39'39.3"E		
			2°32'44.3"N	99°39'39.1"E		
			2°32'42.2"N	99°39'39.0"E		
			2°32'39.5"N	99°39'39.2"E		
			2°32'36.9"N	99°39'39.3"E		
			2°32'38.5"N	99°39'39.2"E		
			2°32'38.4"N	99°39'39.3"E		
			2°32'37.7"N	99°39'39.3"E		
			2°32'37.7"N	99°39'39.3"E		
			2°32'28.4"N	99°39'39.3"E		
			2°32'28.1"N	99°39'39.4"E		
			2°32'26.9"N	99°39'39.5"E		
			2°32'26.1"N	99°39'39.5"E		
			2°32'27.6"N	99°39'39.4"E		
			2°32'23.8"N	99°39'39.6"E		
			2°32'24.5"N	99°39'39.5"E		
			2°32'25.4"N	99°39'39.5"E		
			2°32'27.4"N	99°39'39.3"E		

			2°32'28.5"N	99°39'39.4"E			
			2°32'26.3"N	99°39'39.5"E			
			2°32'29.7"N	99°39'39.3"E			
			2°32'22.3"N	99°39'39.3"E			
			2°32'23.2"N	99°39'39.4"E			
			2°32'29.0"N	99°39'39.3"E			
			2°32'20.8"N	99°39'39.1"E			
			2°32'27.4"N	99°39'39.3"E			
			2°32'25.3"N	99°39'39.3"E			
			2°32'19.1"N	99°39'38.3"E			
			2°32'21.3"N	99°39'39.6"E			
			2°32'20.1"N	99°39'39.2"E			
			2°32'18.7"N	99°39'38.6"E			
			2°32'18.9"N	99°39'38.5"E			
			2°32'17.1"N	99°39'38.0"E			
			4°07'32.0"N	98°04'22.9"E			
			2°32'17.9"N	99°39'38.1"E			
			2°32'16.0"N	99°39'37.5"E			
			2°32'15.2"N	99°39'37.3"E			
			2°32'17.0"N	99°39'37.7"E			
			2°31'58.3"N	99°39'38.9"E			
			2°32'14.2"N	99°39'37.0"E			
			2°32'04.7"N	99°39'37.9"E			
			2°32'00.4"N	99°39'38.8"E			
			2°31'60.0"N	99°39'38.9"E			
			2°31'59.8"N	99°39'38.6"E			
			2°31'58.9"N	99°39'38.8"E			
			2°31'59.0"N	99°39'39.0"E			
			2°31'56.1"N	99°39'39.2"E			
			2°31'57.5"N	99°39'39.3"E			
4	025	BTS KOTA RANTAU PARAPAT – AEK NABARA	2°31'57.4"N	99°39'39.3"E	9,87	8,48	70
			2°31'56.7"N	99°39'39.1"E			
			2°31'54.5"N	99°39'39.5"E			
			2°31'56.6"N	99°39'39.5"E			
			2°31'53.5"N	99°39'39.6"E			
			2°31'55.8"N	99°39'39.6"E			
			2°31'53.1"N	99°39'39.6"E			
			2°31'55.4"N	99°39'39.6"E			
			2°31'52.1"N	99°39'39.7"E			
			2°31'53.6"N	99°39'39.9"E			
			2°31'52.9"N	99°39'39.9"E			
			2°31'51.9"N	99°39'40.0"E			
			2°31'52.1"N	99°39'39.7"E			
			2°31'52.1"N	99°39'39.7"E			
			2°25'06.9"N	99°40'56.2"E			
			2°31'58.2"N	99°39'38.9"E			
			2°25'04.8"N	99°40'59.1"E			
			2°25'05.4"N	99°40'58.6"E			
			2°25'04.5"N	99°40'59.3"E			
			2°25'05.6"N	99°40'58.0"E			
			2°25'04.2"N	99°40'59.6"E			
			2°25'04.8"N	99°40'58.8"E			
			2°25'03.1"N	99°41'00.1"E			
			2°24'03.1"N	99°41'00.1"E			
			2°32'26.3"N	99°39'39.5"E			
			2°32'20.8"N	99°39'39.1"E			
			2°32'25.3"N	99°39'39.3"E			
			2°32'21.3"N	99°39'39.6"E			
			2°32'20.1"N	99°39'39.2"E			
			2°32'18.9"N	99°39'38.5"E			
			2°32'17.1"N	99°39'38.0"E			

			4°07'32.0"N 2°32'17.9"N 2°32'15.2"N 2°32'17.0"N 2°32'14.2"N 2°32'00.4"N 2°31'60.0"N 2°31'58.9"N 2°31'56.1"N 2°31'54.5"N	98°04'22.9"E 99°39'38.1"E 99°39'37.3"E 99°39'37.7"E 99°39'37.0"E 99°39'38.8"E 99°39'38.9"E 99°39'38.8"E 99°39'39.2"E 99°39'39.5"E			
5	028	LAWE PAKAM (BTS PROV ACEH) - KUTA BULUH	3°06'31.9"N 3°06'22.9"N 3°06'30.2"N 3°06'22.1"N 3°06'21.8"N 3°06'23.4"N 3°06'22.0"N 3°06'22.8"N 3°06'13.8"N 3°06'13.9"N 3°06'14.3"N 3°06'14.2"N 3°06'14.2"N 3°06'17.7"N 3°06'10.7"N 3°06'11.2"N 3°06'10.1"N 3°06'13.6"N 3°06'12.7"N 3°06'05.9"N 3°06'07.2"N 3°06'08.8"N 3°05'58.3"N 3°05'59.5"N 3°06'06.4"N 3°06'04.9"N 3°05'53.6"N 3°06'08.5"N 3°05'52.7"N 3°06'09.0"N 3°06'06.7"N 3°06'00.5"N 3°05'58.3"N 3°06'01.3"N 3°05'42.3"N 3°05'56.1"N 3°05'59.3"N 3°05'36.3"N 3°05'38.2"N 3°06'00.3"N 3°05'58.8"N 3°05'57.3"N 3°05'47.0"N 3°05'31.7"N 3°05'21.6"N 3°05'24.7"N 3°05'21.2"N 3°05'23.0"N 3°05'21.5"N 3°05'22.2"N 3°05'17.2"N	98°16'46.8"E 98°16'34.4"E 98°16'44.2"E 98°16'33.6"E 98°16'33.6"E 98°16'35.5"E 98°16'33.6"E 98°16'34.6"E 98°16'23.8"E 98°16'24.8"E 98°16'25.9"E 98°16'24.5"E 98°16'25.2"E 98°16'28.8"E 98°16'23.8"E 98°16'23.7"E 98°16'23.4"E 98°16'23.6"E 98°16'23.4"E 98°16'18.3"E 98°16'18.6"E 98°16'20.9"E 98°16'21.2"E 98°16'18.6"E 98°16'18.3"E 98°16'17.6"E 98°16'28.6"E 98°16'19.3"E 98°16'29.2"E 98°16'22.2"E 98°16'18.4"E 98°16'16.8"E 98°16'21.2"E 98°16'15.7"E 98°16'34.2"E 98°16'25.3"E 98°16'18.8"E 98°16'37.4"E 98°16'36.1"E 98°16'17.3"E 98°16'19.7"E 98°16'23.5"E 98°16'31.0"E 98°16'40.6"E 98°16'43.5"E 98°16'43.2"E 98°16'43.7"E 98°16'43.3"E 98°16'43.8"E 98°16'43.8"E 98°16'43.5"E	42,64	7,71	100

			3°05'16.6"N 98°16'40.2"E 3°05'20.2"N 98°16'44.0"E 3°05'16.8"N 98°16'42.9"E 3°05'16.7"N 98°16'41.5"E 3°05'15.0"N 98°16'36.7"E 3°05'16.6"N 98°16'38.7"E 3°05'11.6"N 98°16'26.7"E 3°05'16.6"N 98°16'39.3"E 3°05'14.7"N 98°16'36.5"E 3°05'14.7"N 98°16'36.5"E 3°05'15.6"N 98°16'37.3"E 3°05'12.4"N 98°16'31.5"E 3°05'11.4"N 98°16'29.0"E 3°05'11.2"N 98°16'23.0"E 3°05'09.6"N 98°16'19.1"E 3°05'08.2"N 98°16'14.8"E 3°05'05.9"N 98°16'12.4"E 3°05'09.1"N 98°16'17.3"E 3°05'04.2"N 98°16'10.7"E 3°05'04.9"N 98°16'11.5"E 3°05'07.0"N 98°16'13.3"E 3°05'02.1"N 98°16'10.4"E 3°04'59.6"N 98°16'10.5"E 3°05'03.6"N 98°16'10.4"E 3°04'58.9"N 98°16'10.6"E 3°04'57.4"N 98°16'10.7"E 3°05'00.1"N 98°16'10.5"E 3°05'02.9"N 98°16'10.3"E 3°04'58.2"N 98°16'10.6"E 3°05'14.7"N 98°16'36.5"E 3°05'15.6"N 98°16'37.3"E 3°05'12.4"N 98°16'31.5"E 3°05'11.4"N 98°16'29.0"E 3°05'11.2"N 98°16'23.0"E 3°05'09.6"N 98°16'19.1"E 3°05'08.2"N 98°16'14.8"E 3°05'05.9"N 98°16'12.4"E 3°05'09.1"N 98°16'17.3"E 3°05'04.2"N 98°16'10.7"E 3°05'04.9"N 98°16'11.5"E 3°05'07.0"N 98°16'13.3"E 3°05'02.1"N 98°16'10.4"E 3°04'59.6"N 98°16'10.5"E 3°05'03.6"N 98°16'10.4"E 3°04'58.9"N 98°16'10.6"E 3°04'57.4"N 98°16'10.7"E 3°05'00.1"N 98°16'10.5"E 3°05'02.9"N 98°16'10.3"E 3°04'58.2"N 98°16'10.6"E			
6	032	BTS KAB DAIRI - DOLOK SANGGUL	2°34'47.2"N 98°33'40.1"E 2°34'43.9"N 98°33'44.0"E 2°34'39.3"N 98°33'51.1"E 2°34'36.1"N 98°33'55.3"E 2°34'26.8"N 98°34'09.9"E 2°34'21.9"N 98°34'17.2"E 2°33'29.6"N 98°35'44.6"E 2°33'21.2"N 98°35'46.8"E 2°33'11.2"N 98°35'58.8"E 2°33'08.5"N 98°36'03.6"E 2°33'05.9"N 98°36'09.9"E 2°33'04.6"N 98°36'15.1"E	49,41	7,13	80

			2°32'52.6"N	98°36'33.3"E		
			2°32'50.1"N	98°36'36.1"E		
			2°32'37.1"N	98°36'58.2"E		
			2°32'33.8"N	98°37'02.5"E		
			2°32'09.9"N	98°37'39.9"E		
			2°32'02.8"N	98°37'46.7"E		
			2°31'33.9"N	98°38'04.5"E		
			2°31'27.5"N	98°38'10.0"E		
			2°29'04.7"N	98°39'38.9"E		
			2°28'59.4"N	98°39'43.8"E		
			2°28'46.2"N	98°39'52.3"E		
			2°28'33.8"N	98°39'54.8"E		
			2°28'33.8"N	98°39'54.8"E		
			2°28'33.9"N	98°39'55.4"E		
			2°28'28.0"N	98°39'55.4"E		
			2°28'18.8"N	98°39'55.0"E		
			2°28'04.5"N	98°39'51.6"E		
			2°27'23.8"N	98°39'33.0"E		
			2°26'49.6"N	98°39'16.2"E		
			2°26'33.1"N	98°39'13.2"E		
			2°26'29.0"N	98°39'12.3"E		
			2°26'22.6"N	98°39'10.5"E		
			2°25'04.2"N	98°39'54.2"E		
			2°25'02.7"N	98°39'55.7"E		
			2°24'59.9"N	98°39'57.9"E		
			2°24'58.9"N	98°39'58.7"E		
			2°24'45.6"N	98°40'14.7"E		
			2°24'40.9"N	98°40'14.5"E		
			2°24'42.2"N	98°40'15.0"E		
			2°24'40.0"N	98°40'18.0"E		
			2°24'22.4"N	98°40'28.2"E		
			2°24'19.3"N	98°40'34.7"E		
			2°24'18.5"N	98°40'35.4"E		
			2°23'57.1"N	98°40'59.1"E		
			2°23'52.7"N	98°40'58.8"E		
			2°23'50.2"N	98°41'01.5"E		
			2°23'49.5"N	98°41'02.7"E		
			2°23'49.0"N	98°41'02.7"E		
			2°24'24.9"N	98°40'26.1"E		
			2°24'24.5"N	98°40'24.9"E		
			2°24'15.8"N	98°40'38.1"E		
			2°24'11.4"N	98°40'39.3"E		
			2°24'11.0"N	98°40'39.6"E		
			2°24'09.4"N	98°40'39.8"E		
			2°23'52.8"N	98°40'58.4"E		
			2°23'53.8"N	98°41'00.9"E		
			2°23'39.6"N	98°41'05.9"E		
			2°23'37.6"N	98°41'09.4"E		
			2°23'37.1"N	98°41'09.6"E		
			2°23'34.4"N	98°41'11.4"E		
			2°23'33.4"N	98°41'12.0"E		
			2°23'25.5"N	98°41'19.9"E		
			2°23'23.6"N	98°41'22.9"E		
			2°22'21.1"N	98°42'22.6"E		
			2°22'15.7"N	98°42'24.5"E		
			2°21'44.6"N	98°42'38.2"E		
			2°21'39.6"N	98°42'40.7"E		
			2°20'23.6"N	98°43'14.1"E		
			2°20'19.9"N	98°43'15.5"E		
			2°20'18.4"N	98°43'15.9"E		
			2°21'39.6"N	98°42'40.7"E		

			2°20'23.6"N 98°43'14.1"E 2°20'19.9"N 98°43'15.5"E 2°20'18.4"N 98°43'15.9"E 2°20'14.0"N 98°43'17.6"E 2°20'13.6"N 98°43'18.0"E 2°20'09.8"N 98°43'19.9"E 2°20'07.8"N 98°43'21.0"E			
7	033	DOLOK SANGGUL - SIBORONG BORONG	2°16'14.1"N 98°46'37.4"E 2°16'13.7"N 98°46'40.1"E 2°16'11.4"N 98°46'44.6"E 2°16'10.3"N 98°46'46.9"E 2°16'07.9"N 98°46'53.7"E 2°16'06.6"N 98°46'56.2"E 2°16'00.2"N 98°47'05.1"E 2°15'58.6"N 98°47'08.2"E 2°15'56.0"N 98°47'13.7"E 2°15'52.5"N 98°47'18.1"E 2°15'45.6"N 98°47'24.5"E 2°15'43.4"N 98°47'26.3"E 2°15'42.0"N 98°47'28.9"E 2°15'41.9"N 98°47'30.1"E 2°15'35.6"N 98°47'41.7"E 2°15'30.6"N 98°47'52.7"E 2°15'32.3"N 98°47'50.0"E 2°15'30.6"N 98°47'53.2"E 2°15'30.6"N 98°47'57.7"E 2°15'31.6"N 98°47'50.0"E 2°15'30.0"N 98°47'58.8"E 2°15'30.0"N 98°47'53.6"E 2°15'31.1"N 98°47'55.1"E 2°15'31.3"N 98°47'55.9"E 2°15'24.7"N 98°48'20.6"E 2°15'23.0"N 98°48'07.0"E 2°15'20.7"N 98°48'11.0"E 2°15'21.9"N 98°48'16.7"E 2°15'21.0"N 98°48'15.8"E 2°15'20.3"N 98°48'12.2"E 2°15'20.0"N 98°48'13.7"E 2°15'27.1"N 98°48'25.1"E 2°15'33.4"N 98°48'40.1"E 2°15'33.1"N 98°48'39.3"E 2°15'32.1"N 98°48'37.8"E 2°15'29.2"N 98°48'35.9"E 2°15'28.1"N 98°48'27.0"E 2°15'28.2"N 98°48'28.5"E 2°15'26.6"N 98°48'32.3"E 2°15'42.8"N 98°48'52.0"E 2°15'43.1"N 98°48'52.5"E 2°15'43.3"N 98°48'54.1"E 2°15'42.8"N 98°48'55.1"E 2°15'42.2"N 98°49'02.9"E 2°15'42.4"N 98°49'05.0"E 2°15'42.7"N 98°49'08.6"E 2°15'42.6"N 98°49'15.4"E 2°15'42.5"N 98°49'18.1"E 2°15'43.6"N 98°49'26.8"E 2°15'42.6"N 98°49'19.3"E 2°15'47.6"N 98°49'53.7"E 2°15'47.7"N 98°49'56.0"E 2°15'48.2"N 98°49'59.6"E 2°15'48.7"N 98°50'02.4"E	28,48	7,13	80

			2°15'49.3"N 98°50'12.3"E 2°15'49.4"N 98°50'15.0"E 2°15'50.1"N 98°50'21.2"E 2°15'50.1"N 98°50'22.3"E 2°15'50.2"N 98°50'23.5"E 2°15'49.4"N 98°50'15.0"E 2°15'50.1"N 98°50'21.2"E 2°15'50.1"N 98°50'22.3"E 2°15'50.2"N 98°50'23.5"E 2°15'47.6"N 98°49'53.7"E 2°15'48.7"N 98°50'02.4"E 2°15'49.3"N 98°50'12.3"E 2°15'50.1"N 98°50'21.2"E 2°15'50.1"N 98°50'22.3"E 2°15'50.2"N 98°50'23.5"E 2°15'49.4"N 98°50'15.0"E 2°15'42.6"N 98°49'19.3"E 2°15'47.6"N 98°49'53.7"E 2°15'47.7"N 98°49'56.0"E 2°15'48.2"N 98°49'59.6"E 2°15'48.7"N 98°50'02.4"E 2°15'49.3"N 98°50'12.3"E 2°15'49.4"N 98°50'15.0"E 2°15'50.1"N 98°50'21.2"E 2°15'50.1"N 98°50'22.3"E 2°15'50.2"N 98°50'23.5"E			
8	042	BTS PROV ACEH - SARAGIH - MANDUAMAS - BARUS	2°10'16.0"N 98°14'38.8"E 2°10'03.8"N 98°14'38.4"E 2°09'59.8"N 98°14'39.7"E 2°09'55.6"N 98°14'39.1"E 2°09'54.1"N 98°14'40.5"E 2°09'50.2"N 98°14'43.1"E 2°09'49.7"N 98°14'43.4"E 2°09'43.4"N 98°14'44.7"E 2°09'36.8"N 98°14'45.6"E 2°09'47.1"N 98°14'44.0"E 2°09'30.7"N 98°14'47.8"E 2°09'27.7"N 98°14'48.8"E 2°09'26.1"N 98°14'50.1"E 2°09'24.9"N 98°14'51.8"E 2°09'24.4"N 98°14'52.4"E 2°09'23.3"N 98°14'54.4"E 2°09'21.4"N 98°14'56.8"E 2°09'18.8"N 98°14'59.8"E 2°09'16.6"N 98°15'02.7"E 2°09'15.3"N 98°15'04.6"E 2°09'14.8"N 98°15'05.4"E 2°09'13.8"N 98°15'07.1"E 2°09'12.5"N 98°15'09.9"E 2°09'10.9"N 98°15'14.0"E 2°09'10.4"N 98°15'15.1"E 2°09'09.4"N 98°15'18.2"E 2°09'05.7"N 98°15'25.4"E 2°09'02.7"N 98°15'27.3"E 2°09'02.2"N 98°15'28.3"E 2°09'00.9"N 98°15'30.7"E 2°08'58.9"N 98°15'34.7"E 2°08'58.6"N 98°15'35.2"E 2°08'59.6"N 98°15'33.3"E 2°08'58.6"N 98°15'34.9"E 2°08'57.4"N 98°15'37.6"E	50,02	5,1	40

			2°08'55.8"N 2°08'53.4"N 2°08'50.3"N 2°08'49.8"N 2°08'46.3"N	98°15'40.2"E 98°15'44.7"E 98°15'49.5"E 98°15'50.6"E 98°15'57.0"E			
9	043	BARUS - BTS KOTA SIBOLGA	2°02'30.4"N 2°02'35.2"N 2°02'33.7"N 2°02'25.0"N 2°02'24.0"N 2°02'26.8"N 2°02'20.7"N 2°02'21.6"N 2°02'19.9"N 2°02'20.7"N 2°02'22.1"N 2°02'23.1"N 2°02'16.2"N 2°02'13.0"N 2°02'15.1"N 2°02'20.6"N 2°02'18.4"N 2°02'06.7"N 2°02'07.2"N 2°02'10.6"N 2°02'08.0"N 2°01'57.1"N 2°02'12.1"N 2°02'05.7"N 2°02'09.9"N 2°02'11.8"N 2°02'12.3"N 2°02'02.4"N 2°01'55.8"N 2°01'52.6"N 2°01'44.3"N 2°01'40.9"N 2°01'47.4"N 2°01'50.5"N 2°01'55.0"N 2°01'39.8"N 2°01'45.8"N 2°01'49.1"N 2°01'53.1"N 2°01'52.0"N	98°24'27.7"E 98°24'25.7"E 98°24'25.9"E 98°24'32.2"E 98°24'33.0"E 98°24'30.6"E 98°24'36.6"E 98°24'35.4"E 98°24'37.2"E 98°24'36.1"E 98°24'34.5"E 98°24'33.7"E 98°24'41.5"E 98°24'45.4"E 98°24'42.3"E 98°24'36.6"E 98°24'39.3"E 98°24'52.7"E 98°24'52.4"E 98°24'49.4"E 98°24'51.8"E 98°24'58.1"E 98°24'47.1"E 98°24'53.3"E 98°24'50.0"E 98°24'47.5"E 98°24'46.5"E 98°24'55.5"E 98°24'58.8"E 98°24'59.6"E 98°25'01.8"E 98°25'05.6"E 98°25'02.0"E 98°25'00.3"E 98°24'58.8"E 98°25'02.4"E 98°25'01.8"E 98°25'01.0"E 98°24'59.2"E 98°24'59.7"E	60,63	7,0	40
10	057	BTS KAB KARO - PANJI	2°01'40.3"N 2°01'39.1"N 2°01'40.5"N 2°01'39.1"N 2°01'31.6"N 2°01'32.2"N 2°01'34.7"N 2°01'35.7"N 2°01'32.9"N 2°01'36.3"N 2°01'37.4"N 2°44'02.3"N 2°44'02.6"N 2°44'02.4"N 2°44'02.5"N 2°44'02.5"N	98°25'11.9"E 98°25'15.0"E 98°25'10.6"E 98°25'15.0"E 98°25'27.8"E 98°25'26.2"E 98°25'22.4"E 98°25'21.0"E 98°25'25.4"E 98°25'19.6"E 98°25'18.3"E 98°20'25.1"E 98°20'18.4"E 98°20'11.6"E 98°20'14.6"E 98°20'06.4"E	45,69	6,5	40

			2°44'02.3"N 2°44'02.0"N 2°44'03.5"N 2°44'02.3"N 2°44'05.1"N 2°44'07.7"N 2°44'02.2"N 2°44'24.1"N 2°44'21.9"N 2°44'21.0"N 2°44'14.5"N 2°44'16.2"N 2°44'12.1"N 2°44'18.8"N 2°44'10.0"N 2°44'26.8"N 2°44'28.6"N 2°44'08.4"N 2°44'29.3"N 2°44'10.9"N 2°44'30.2"N 2°44'17.0"N 2°44'31.2"N 2°44'20.8"N	98°20'04.1"E 98°19'55.5"E 98°19'48.1"E 98°20'00.8"E 98°19'47.0"E 98°19'45.6"E 98°19'51.2"E 98°19'26.1"E 98°19'28.1"E 98°19'29.9"E 98°19'37.4"E 98°19'35.4"E 98°19'40.3"E 98°19'32.6"E 98°19'42.7"E 98°22'16.8"E 98°22'18.1"E 98°22'09.1"E 98°22'18.7"E 98°22'10.2"E 98°22'19.5"E 98°22'12.5"E 98°22'20.4"E 98°22'14.3"E			
11	058	BTS. PROV. ACEH - BTS KOTA SIDIKALANG	2°44'32.5"N 2°44'24.3"N 2°44'34.1"N 2°44'22.3"N 2°44'35.4"N 2°44'36.0"N 2°44'21.4"N 2°44'35.8"N 2°44'20.2"N 2°44'31.6"N 2°44'19.1"N 2°44'18.3"N 2°44'30.5"N 2°44'29.4"N 2°44'18.3"N 2°44'17.7"N 2°44'28.1"N 2°44'26.9"N 2°44'17.3"N 2°44'16.8"N 2°44'25.0"N 2°44'23.1"N 2°44'46.1"N 2°44'50.3"N 2°44'49.9"N 2°45'04.8"N 2°44'51.3"N 2°45'03.0"N 2°44'53.9"N 2°45'02.8"N 2°44'59.1"N 2°45'01.2"N 2°45'07.3"N 2°45'08.0"N 2°45'06.3"N 2°45'09.1"N 2°45'10.2"N	98°22'21.4"E 98°22'15.6"E 98°22'22.7"E 98°22'40.4"E 98°22'23.8"E 98°22'25.0"E 98°22'41.6"E 98°22'25.9"E 98°22'43.4"E 98°22'35.9"E 98°22'45.7"E 98°22'47.3"E 98°22'36.7"E 98°22'37.3"E 98°22'47.0"E 98°22'47.7"E 98°22'37.9"E 98°22'38.3"E 98°22'48.3"E 98°22'49.2"E 98°22'38.7"E 98°22'39.6"E 98°25'32.7"E 98°25'37.2"E 98°25'36.8"E 98°25'57.0"E 98°25'39.5"E 98°25'54.6"E 98°25'44.7"E 98°25'52.7"E 98°25'49.7"E 98°25'50.5"E 98°26'10.1"E 98°26'11.2"E 98°26'05.8"E 98°26'12.0"E 98°26'12.6"E	39,87	6,5	120

			2°45'06.5"N	98°26'07.0"E		
			2°45'06.9"N	98°26'08.7"E		
			2°45'11.5"N	98°26'13.2"E		
			2°42'11.6"N	98°18'32.4"E		
			2°42'12.8"N	98°18'32.2"E		
			2°42'14.7"N	98°18'32.7"E		
			2°42'16.3"N	98°18'32.7"E		
			2°42'17.5"N	98°18'33.2"E		
			2°42'19.9"N	98°18'33.0"E		
			2°42'08.2"N	98°18'32.0"E		
			2°42'05.8"N	98°18'31.8"E		
			2°42'07.2"N	98°18'31.9"E		
			2°42'09.0"N	98°18'32.0"E		
			2°42'09.9"N	98°18'32.2"E		
			2°41'56.1"N	98°18'23.1"E		
			2°41'57.4"N	98°18'23.8"E		
			2°41'58.8"N	98°18'25.3"E		
			2°41'54.7"N	98°18'22.6"E		
			2°42'01.2"N	98°18'29.2"E		
			2°41'59.3"N	98°18'25.9"E		
			2°41'55.4"N	98°18'22.8"E		
			2°41'56.6"N	98°18'23.3"E		
			2°41'55.8"N	98°18'22.9"E		
			2°41'58.3"N	98°18'24.8"E		
			2°42'02.3"N	98°18'30.4"E		
			2°41'53.9"N	98°18'22.4"E		
			2°42'00.2"N	98°18'27.5"E		
			2°41'49.3"N	98°18'20.9"E		
			2°41'50.6"N	98°18'21.6"E		
			2°41'53.2"N	98°18'22.3"E		
			2°41'52.0"N	98°18'22.1"E		
			2°41'52.5"N	98°18'22.2"E		
			2°41'48.3"N	98°18'21.1"E		
			2°41'50.1"N	98°18'21.2"E		
			2°41'52.4"N	98°18'22.2"E		
			2°41'49.0"N	98°18'20.9"E		
			2°41'48.6"N	98°18'20.9"E		
			2°41'53.7"N	98°18'22.3"E		
			2°41'51.3"N	98°18'21.9"E		
			2°41'47.4"N	98°18'21.6"E		
			2°41'46.5"N	98°18'22.0"E		
			2°41'44.6"N	98°18'21.2"E		
			2°41'42.9"N	98°18'19.9"E		
			2°41'44.0"N	98°18'20.7"E		
			2°41'41.7"N	98°18'18.8"E		
			2°41'41.0"N	98°18'17.6"E		
			2°41'40.4"N	98°18'17.0"E		
			2°41'43.4"N	98°18'20.4"E		
			2°41'42.2"N	98°18'19.4"E		
			2°41'40.6"N	98°18'17.4"E		
			2°41'40.1"N	98°18'16.6"E		
			2°41'39.7"N	98°18'15.0"E		
			2°41'39.1"N	98°18'12.9"E		
			2°41'40.0"N	98°18'16.2"E		
			2°41'39.7"N	98°18'15.6"E		
			2°41'39.7"N	98°18'13.8"E		
			2°41'37.0"N	98°18'11.7"E		
			2°41'37.5"N	98°18'11.8"E		
			2°41'38.0"N	98°18'12.2"E		
			2°41'35.8"N	98°18'11.2"E		
			2°41'35.2"N	98°18'09.9"E		

			2°41'35.6"N 2°41'35.2"N 2°41'35.1"N 2°41'35.3"N 2°41'35.4"N 2°41'35.1"N 2°41'36.1"N 2°41'31.7"N 2°41'33.3"N 2°41'35.5"N 2°41'35.5"N 2°41'34.8"N 2°41'32.7"N 2°41'34.1"N 2°56'09.3"N 2°56'10.5"N 2°55'15.7"N 2°55'12.1"N 2°56'09.8"N 2°56'14.6"N 2°56'31.4"N 2°56'35.4"N	98°18'10.8"E 98°18'09.4"E 98°18'08.1"E 98°18'06.7"E 98°18'10.4"E 98°18'08.6"E 98°18'04.1"E 98°18'04.5"E 98°18'04.4"E 98°18'06.2"E 98°18'03.6"E 98°18'03.6"E 98°18'04.8"E 98°18'03.9"E 98°32'05.9"E 98°32'18.0"E 98°29'27.2"E 98°29'25.6"E 98°30'24.7"E 98°30'26.7"E 98°30'43.2"E 98°30'52.4"E			
12	059	MEREK - BTS KAB SIMALUNGUN	2°56'46.1"N 2°56'47.1"N 2°56'13.6"N 2°56'16.3"N 2°56'22.5"N 2°56'23.0"N 2°56'24.0"N 2°56'24.8"N 2°56'27.4"N 2°56'30.7"N 2°56'33.2"N 2°56'35.6"N 2°29'04.7"N 2°28'59.4"N 2°56'35.1"N 2°56'36.0"N 2°56'40.3"N 2°28'33.9"N 2°28'28.0"N 2°56'42.8"N	98°31'19.3"E 98°31'23.3"E 98°30'26.8"E 98°30'27.0"E 98°30'32.9"E 98°30'33.6"E 98°30'35.0"E 98°30'36.1"E 98°30'39.7"E 98°30'42.7"E 98°30'44.3"E 98°30'49.1"E 98°39'38.9"E 98°39'43.8"E 98°30'52.0"E 98°30'56.4"E 98°31'06.0"E 98°39'55.4"E 98°39'55.4"E 98°31'11.3"E	2,67	8,55	20
13	060	BTS KAB KARO - SARIBU DOLOK	2°56'45.7"N 2°56'47.4"N 2°56'47.1"N 2°56'44.9"N 2°56'42.2"N 2°56'40.0"N 2°56'37.8"N 2°56'34.8"N 2°56'33.1"N 2°56'31.9"N 2°56'28.7"N 2°56'25.1"N 2°56'27.7"N 2°56'21.6"N 2°56'20.0"N 2°56'19.3"N 2°56'18.5"N 2°56'17.5"N 2°56'18.3"N	98°31'18.5"E 98°31'21.5"E 98°31'23.2"E 98°31'24.0"E 98°31'25.5"E 98°31'26.3"E 98°31'28.2"E 98°31'32.4"E 98°31'35.5"E 98°31'37.2"E 98°31'39.8"E 98°31'43.4"E 98°31'41.2"E 98°31'46.5"E 98°31'48.4"E 98°31'49.6"E 98°31'51.0"E 98°31'52.2"E 98°31'51.1"E	8,59	8,55	70

			2°56'17.2"N 2°56'17.2"N 2°56'16.6"N 2°56'13.6"N 2°56'13.6"N 2°56'10.2"N 2°56'11.0"N 2°56'11.0"N 2°56'10.0"N 2°56'08.9"N 2°56'08.4"N 2°56'10.0"N 2°56'12.0"N 2°56'13.8"N 2°56'14.8"N 2°56'15.6"N 2°56'08.1"N 2°56'15.9"N 2°56'14.0"N 2°56'06.2"N 2°56'15.2"N 2°56'10.7"N 2°56'09.6"N 2°56'04.7"N 2°56'02.1"N 2°55'57.6"N 2°55'23.0"N 2°55'23.0"N 2°55'12.2"N 2°55'18.5"N 2°55'26.8"N 2°55'28.7"N 2°55'33.2"N 2°55'39.6"N 2°55'41.6"N 2°55'44.2"N 2°55'53.0"N 2°55'52.7"N 2°55'51.8"N 2°55'51.6"N 2°55'48.2"N 2°55'48.6"N 2°55'52.3"N 2°55'52.6"N 2°55'47.9"N 2°55'46.7"N 2°55'44.1"N 2°55'42.8"N 2°56'12.6"N 2°56'12.9"N 2°56'15.0"N	98°31'52.7"E 98°31'52.7"E 98°31'53.6"E 98°31'57.7"E 98°31'57.7"E 98°32'04.7"E 98°32'15.4"E 98°32'17.1"E 98°32'18.4"E 98°32'19.8"E 98°32'20.7"E 98°32'23.6"E 98°32'24.9"E 98°32'26.3"E 98°32'27.4"E 98°32'28.9"E 98°32'51.5"E 98°32'32.2"E 98°32'37.7"E 98°32'54.4"E 98°32'34.4"E 98°32'47.0"E 98°32'49.2"E 98°32'57.7"E 98°33'03.6"E 98°33'14.5"E 99°02'06.2"E 99°02'06.2"E 99°01'50.9"E 99°01'52.5"E 99°02'17.2"E 99°02'21.0"E 99°02'27.7"E 99°02'34.0"E 99°02'35.5"E 99°02'37.5"E 99°02'48.3"E 99°02'49.6"E 99°02'52.4"E 99°02'55.5"E 99°02'40.7"E 99°02'40.8"E 99°03'00.6"E 99°03'03.3"E 99°03'10.3"E 99°03'10.4"E 99°03'10.4"E 99°03'10.7"E 98°35'03.1"E 98°35'04.8"E 98°35'06.9"E			
14	061	SARIBU DOLOK - TIGA RUNGGU	2°56'16.7"N 2°56'15.6"N 2°56'17.0"N 2°56'15.2"N 2°56'16.5"N 2°56'14.1"N 2°56'12.8"N 2°56'11.8"N 2°56'10.1"N 2°56'09.6"N	98°35'08.6"E 98°35'14.2"E 98°35'10.6"E 98°35'15.5"E 98°35'12.0"E 98°35'17.6"E 98°35'20.0"E 98°35'22.5"E 98°35'26.8"E 98°35'29.1"E	14,95	8,55	70

			2°56'08.6"N 2°56'08.1"N 2°56'07.7"N 2°56'07.1"N 2°56'06.7"N 2°54'26.5"N 2°56'16.8"N 2°54'24.3"N 2°54'27.2"N 2°54'29.7"N 2°54'24.3"N 2°54'59.8"N 2°55'04.1"N 2°54'56.6"N 2°54'24.3"N 2°54'53.3"N 2°54'52.0"N 2°55'09.2"N 2°55'02.8"N 2°55'06.0"N 2°55'00.8"N 2°55'00.2"N 2°55'16.5"N 2°55'17.8"N 2°55'17.8"N 2°55'15.7"N 2°55'16.8"N 2°55'17.5"N 2°55'17.4"N 2°55'15.1"N 2°55'15.5"N 2°55'17.9"N 2°55'16.3"N 2°55'16.0"N 2°55'15.3"N 2°55'16.6"N 2°55'17.7"N 2°55'17.2"N 2°55'17.9"N 2°55'17.0"N 2°55'17.8"N 2°55'17.5"N 2°55'15.9"N 2°55'15.5"N 2°55'15.8"N 2°55'16.0"N 2°54'59.4"N 2°55'00.6"N 2°54'57.1"N 2°54'54.8"N 2°54'53.6"N 2°54'55.4"N 2°54'54.3"N 2°54'59.4"N 2°55'16.0"N 2°54'57.1"N 2°54'54.8"N 2°54'55.4"N 2°54'52.0"N 2°54'51.7"N	98°35'31.2"E 98°35'32.7"E 98°35'35.3"E 98°35'36.6"E 98°35'39.3"E 98°45'46.6"E 98°36'44.7"E 98°45'44.6"E 98°45'46.8"E 98°45'46.6"E 98°45'44.6"E 98°45'58.7"E 98°46'02.7"E 98°45'56.6"E 98°45'44.6"E 98°45'57.2"E 98°45'56.2"E 98°46'02.7"E 98°46'02.2"E 98°46'02.2"E 98°46'00.3"E 98°45'59.3"E 98°46'20.4"E 98°46'15.4"E 98°46'17.0"E 98°46'27.0"E 98°46'13.6"E 98°46'17.9"E 98°46'14.5"E 98°46'24.0"E 98°46'22.1"E 98°46'16.0"E 98°46'12.7"E 98°46'29.0"E 98°46'22.7"E 98°46'13.2"E 98°46'15.1"E 98°46'18.7"E 98°46'16.3"E 98°46'13.9"E 98°46'15.7"E 98°46'17.6"E 98°46'29.4"E 98°46'26.3"E 98°46'21.4"E 98°46'27.7"E 98°45'58.2"E 98°46'00.0"E 98°45'57.0"E 98°45'56.7"E 98°45'57.0"E 98°45'56.6"E 98°45'56.8"E 98°45'58.2"E 98°46'27.7"E 98°45'57.0"E 98°45'56.7"E 98°45'56.6"E 98°45'56.5"E 98°45'56.1"E			
15	095	SIMANINDO - PANGURURAN	2°32'01.5"N	98°37'50.3"E	19,30	6,01	50

			2°32'03.3"N	98°37'48.8"E			
			2°32'05.7"N	98°37'47.9"E			
			2°32'08.5"N	98°37'47.2"E			
			2°32'18.7"N	98°37'45.6"E			
			2°32'20.8"N	98°37'45.9"E			
			2°32'22.9"N	98°37'46.3"E			
			2°32'26.1"N	98°37'48.0"E			
			2°32'24.9"N	98°37'47.2"E			
			2°32'28.2"N	98°37'49.3"E			
			2°32'29.6"N	98°37'51.2"E			
			2°32'31.2"N	98°37'52.5"E			
			2°32'33.1"N	98°37'54.0"E			
			2°32'34.1"N	98°37'55.1"E			
			2°32'35.4"N	98°37'56.8"E			
			2°32'36.8"N	98°37'58.4"E			
			2°32'43.2"N	98°38'00.9"E			
			2°32'44.0"N	98°38'01.6"E			
			2°32'44.9"N	98°38'02.2"E			
			2°32'45.9"N	98°38'02.7"E			
			2°32'46.8"N	98°38'03.3"E			
			2°32'47.5"N	98°38'03.8"E			
			2°32'48.3"N	98°38'04.2"E			
			2°32'49.6"N	98°38'05.1"E			
			2°32'50.1"N	98°38'05.6"E			
			2°32'51.3"N	98°38'06.7"E			
			2°32'50.8"N	98°38'06.2"E			
			2°32'51.7"N	98°38'07.1"E			
			2°32'52.0"N	98°38'07.6"E			
			2°32'54.7"N	98°38'09.5"E			
			2°32'54.1"N	98°38'09.2"E			
			2°32'55.2"N	98°38'09.7"E			
			2°32'55.2"N	98°38'09.7"E			
			2°32'55.2"N	98°38'09.7"E			
			2°32'55.6"N	98°38'10.2"E			
			2°32'56.1"N	98°38'10.4"E			
			2°32'56.8"N	98°38'10.9"E			
			2°32'57.0"N	98°38'11.1"E			
			2°32'57.0"N	98°38'11.1"E			
			2°32'57.5"N	98°38'11.4"E			
			2°32'57.5"N	98°38'11.4"E			
			2°32'58.5"N	98°38'12.1"E			
			2°32'59.7"N	98°38'12.6"E			
			2°32'59.7"N	98°38'12.6"E			
			2°32'59.1"N	98°38'12.3"E			
			2°33'00.8"N	98°38'13.2"E			
			2°33'00.8"N	98°38'13.2"E			
			2°33'01.6"N	98°38'13.6"E			
			2°33'01.6"N	98°38'13.6"E			
			2°32'00.8"N	98°38'12.2"E			
		TOTAL					930

Tabel 12
USULAN PENGADAAN DAN PEMASANGAN PAKU JALAN
TAHUN ANGGARAN 2024

NO.	NOMOR RUAS	NAMA RUAS	TITIK KOORDINAT		PANJANG RUAS (KM)	LEBAR JALAN (M)	Paku Jalan (Buah)	KET
			LATITUDE	LONGITUDE				
1	001	BTS. PROV. ACEH - SIMPANG PANGKALAN SUSU			27,15	6,68	600	Bulat
		Titik awal	4.138785	98.065216				
		Titik akhir	4.009733	98.224687				
2	002	SIMPANG PANGKALAN SUSU - TANJUNG PURA			29,40	6,68	600	Bulat
		Titik awal	4.009733	98.224687				
		Titik akhir	3.897723	98.421268				
3	024	AEK KANOPAN – BTS KOTA RANTAU PARAPAT			66,12	8,48	600	Bulat
		Titik awal	2.567091	99.654258				
		Titik akhir	2.112648,	99.809728				
4	025	BTS KOTA RANTAU PARAPAT – AEK NABARA			9,87	8,48	500	Bulat
		Titik awal	2.061266	99.861217				
		Titik akhir	2.059459	99.954547				
5	028	LAWE PAKAM(BTS.PROV ACEH) – KUTA BULUH			42,64	7,71	500	Bulat
		Titik awal	3.049027	98.149152				
		Titik akhir	3.281716	97.983932				
6	032	BTS KAB.DAIRI – DOLOK SANGGUL			49,41	7,13	500	Bulat
		Titik awal	2.582947	98.553486				
		Titik akhir	2.258495	98.748135				
7	033	DOLOK SANGGUL – SIBORONG BORONG			28,48	7,13	500	Bulat
		Titik awal	2.258495	98.748135				
		Titik akhir	2.214710	98.974928				
8	042	BTS.PROV.ACEH – SARAGIH-MANDUAMAS- BARUS			50,02	5,1	500	Bulat
		Titik awal	2.241115	98.174037				
		Titik akhir	2.065498	98.408569				
9	043	BARUS – BTS KOTA SIBOLGA			60,63	7,0	500	Bulat
		Titik awal	1.743329	98.779597				
		Titik akhir	2.065498	98.408569				
10	057	BTS.KAB KARO – PANJI			29,81	7,80	600	Bulat
		Titik awal	2.860939	98.482986				
		Titik akhir	2.733935	98.368598				

11	058	BTS.PROV. ACEH – BTS KOTA SIDIKALANG						
		Titik awal	2.628273	98.106231	39,87	6,5	700	Bulat
		Titik akhir	2.724851	98.318501				
12	059	MEREK – BTS.KAB.SIMALUNGUN						
		Titik awal	2.946584	98.522949	2,67	8,55	200	Bulat
		Titik akhir	2.937593	98.541223				
13	060	BTS.KAB KARO -SARIBU DOLOK						
		Titik awal	2.937593	98.541223	8,59	8,55	600	Bulat
		Titik akhir	2.938427	98.610883				
14	061	SARIBU DOLOK -TIGA RUNGGU						
		Titik awal	2.938427	98.610883	14,95	8,55	600	Bulat
		Titik akhir	2.896275	98.721397				
15	095	SIMANINDO -PANGURURAN						
		Titik awal	2.751607	98.745227	19,30	6,01	700	Bulat
		Titik akhir	2.611795	98.695091				
TOTAL					418,28		8.200	

Tabel 15
USULAN PENGADAAN DAN PEMASANGAN ALAT PENERANGAN JALAN
TAHUN ANGGARAN 2024

NO.	NOMOR RUAS			NAMA RUAS	TITIK KOORDINAT		PANJANG RUAS (KM)	LEBAR JALAN (M)	JENIS APJ	KET
					LATITUDE	LONGITUDE				
1	001			Bts Prov Aceh – Simpang Pangkalan Susu	4°00'38.0"N 4°00'44.5"N 4°00'44.0"N 4°01'10.3"N 4°01'16.7"N 4°01'23.9"N 4°01'32.0"N 4°01'44.2"N 4°01'53.6"N 4°01'58.7"N	98°13'26.8"E 98°13'13.6"E 98°13'00.1"E 98°12'23.6"E 98°12'07.3"E 98°11'56.0"E 98°11'43.0"E 98°11'21.5"E 98°11'05.7"E 98°10'59.9"E	27,15	6,68	Solar cell	10
2	002			Simpang Pangkalan Susu – Tanjung Pura	4°00'31.1"N 4°00'28.9"N 4°00'26.5"N 4°00'22.6"N 4°00'20.5"N 4°00'14.0"N 4°00'12.9"N 4°00'12.8"N 4°00'11.3"N 4°00'09.2"N	98°13'32.0"E 98°13'33.8"E 98°13'35.2"E 98°13'39.1"E 98°13'40.9"E 98°13'44.8"E 98°13'48.6"E 98°13'51.9"E 98°13'54.6"E 98°13'57.0"E	29,40	6,68	Solar cell	10
3	028			Lawe Pakam (Bts Prov Aceh) – Kuta Buluh	3°15'56.4"N 3°15'59.5"N 3°16'02.5"N 3°16'04.7"N 3°16'07.2"N 3°16'10.8"N 3°16'14.5"N 3°16'16.9"N 3°16'19.7"N 3°16'28.3"N	97°55'16.6"E 97°55'18.0"E 97°55'18.5"E 97°55'18.4"E 97°55'18.1"E 97°55'18.1"E 97°55'17.9"E 97°55'19.3"E 97°55'20.2"E 97°55'22.5"E	42,64	7,71	Solar cell	10
4	032			Bts Kab Dairi – Dolok Sanggul	2°40'28.7"N 2°40'20.3"N 2°40'17.9"N 2°40'16.1"N 2°40'14.5"N 2°40'11.7"N 2°40'07.5"N 2°40'04.3"N 2°39'58.1"N 2°39'52.7"N	98°26'13.4"E 98°26'18.6"E 98°26'21.4"E 98°26'23.9"E 98°26'25.1"E 98°26'27.3"E 98°26'28.9"E 98°26'30.2"E 98°26'32.7"E 98°26'34.8"E	49,41	7,13	Solar cell	10
5	033			Dolok Sanggul – Siborong Borong	2°15'09.7"N 2°15'13.6"N 2°15'17.9"N 2°15'20.8"N 2°15'23.1"N 2°15'25.0"N	98°45'02.1"E 98°45'01.3"E 98°44'59.0"E 98°44'56.6"E 98°44'57.2"E 98°45'00.4"E	28,48	7,13	Solar cell	10

					2°15'28.2"N 2°15'34.5"N 2°15'39.6"N 2°15'49.2"N	98°45'02.5"E 98°45'11.2"E 98°45'21.7"E 98°45'35.9"E				
6	042			Bts Prov Aceh – Saragih – Manduamas - Barus	2°09'02.4"N 2°09'01.7"N 2°09'00.8"N 2°08'58.6"N 2°08'52.0"N 2°08'49.7"N 2°08'48.5"N 2°08'45.6"N 2°08'41.2"N 2°08'39.2"N	98°15'27.5"E 98°15'29.3"E 98°15'31.3"E 98°15'35.1"E 98°15'46.9"E 98°15'51.0"E 98°15'53.4"E 98°15'58.5"E 98°16'07.4"E 98°16'15.7"E	50,02	5,1	Solar cell	10
7	043			Barus – Bts Kota Sibolga	2°00'29.9"N 2°00'29.7"N 2°00'29.4"N 2°00'30.5"N 2°00'32.0"N 2°00'35.1"N 2°00'36.6"N 2°00'36.4"N 2°00'32.1"N 2°00'24.7"N	98°24'57.8"E 98°24'53.6"E 98°25'01.6"E 98°25'03.2"E 98°25'06.6"E 98°25'14.1"E 98°25'20.1"E 98°25'25.9"E 98°25'38.1"E 98°25'57.1"E	60,63	7,0	Solar cell	10
8	057			Bts Kab Karo - Panji	2°55'32.9"N 2°55'27.0"N 2°55'23.6"N 2°55'21.8"N 2°55'15.2"N 2°55'17.8"N 2°55'20.0"N 2°55'24.8"N 2°55'28.4"N 2°55'31.2"N	98°29'35.8"E 98°29'32.7"E 98°29'30.6"E 98°29'30.4"E 98°29'27.1"E 98°29'28.3"E 98°29'29.4"E 98°29'32.0"E 98°29'33.1"E 98°29'34.4"E	29,81	7,80	Solar cell	10
9	058			Bts Prov Aceh – Bts Kota Sidikalang	2°00'42.9"N 2°00'41.1"N 2°00'37.0"N 2°00'32.3"N 2°00'30.6"N 2°00'49.2"N 2°00'52.8"N 2°00'53.7"N 2°00'49.8"N 2°00'46.0"N	98°24'37.4"E 98°24'37.8"E 98°24'37.3"E 98°24'37.6"E 98°24'47.0"E 98°24'17.9"E 98°24'23.2"E 98°24'30.1"E 98°24'37.1"E 98°24'37.2"E	39,87	6,5	Solar cell	10
10	059			Merek – Bts Kab Simalungun	2°56'02.7"N 2°56'21.9"N 2°56'25.3"N 2°56'27.3"N 2°56'31.1"N 2°56'35.4"N 2°56'35.4"N 2°56'37.9"N 2°56'40.6"N 2°56'42.0"N	98°30'19.8"E 98°30'32.3"E 98°30'37.0"E 98°30'39.5"E 98°30'43.2"E 98°30'49.2"E 98°30'54.4"E 98°31'00.0"E 98°31'05.8"E 98°31'25.4"E	2,67	8,55	Solar cell	10

11	060			Bts Kab Karo – Saribu Dolok	2°56'04.9"N 2°56'10.3"N 2°56'13.7"N 2°56'17.5"N 2°56'17.5"N 2°56'17.0"N 2°56'15.7"N 2°56'14.7"N 2°56'18.2"N 2°56'10.7"N	98°33'37.6"E 98°33'40.3"E 98°33'41.2"E 98°33'43.0"E 98°33'47.7"E 98°33'54.3"E 98°34'02.6"E 98°34'08.1"E 98°34'21.4"E 98°34'41.2"E	8,59	8,55	Solar cell	10	
12	061			Saribu Dolok – Tiga Runggu	2°55'58.3"N 2°55'55.4"N 2°55'52.5"N 2°55'50.2"N 2°55'46.9"N 2°55'26.1"N 2°55'32.9"N 2°55'36.0"N 2°55'40.4"N 2°55'44.8"N	98°37'05.7"E 98°37'10.8"E 98°37'16.9"E 98°37'20.9"E 98°37'22.9"E 98°37'31.9"E 98°37'29.7"E 98°37'28.7"E 98°37'26.7"E 98°37'24.1"E	14,95	8,55	Solar cell	10	
TOTAL											120

Tabel 16
USULAN PENGADAAN DAN PEMASANGAN WARNING LIGHT
TAHUN ANGGARAN 2024

NO.	NOMOR RUAS		NAMA RUAS	TITIK KOORDINAT		PANJANG RUAS (KM)	LEBAR JALAN (M)	JENIS WARNING LIGHT	ket
				LATITUDE	LONGITUD E				
1	001		Bts Prov Aceh - Simpang Pangkalan Susu	°05'21.7"N °4°05'34.8"N	98°12'20.0"E 98°12'38.0"E	27,15	6,68	SOLAR CELL	WL 2
2	002		Simpang Pangkalan Susu - Tanjung Pura	3°59'46.0"N 3°59'33.4"N	98°13'58.5"E 98°14'07.5"E	29,40	6,68	SOLAR CELL	WL 2
3	028		Lawe Pakam (Bts Prov Aceh) - Kuta Buluh	3°03'01.5"N 3°03'06.0"N	98°08'41.9"E 98°08'49.0"E	42,64	7,71	SOLAR CELL	WL 2
4	032		Bts Kab Dairi – Dolok Sanggul	3°02'48.2"N 3°02'43.0"N	98°09'07.3"E 98°09'11.8"E	49,41	7,13	SOLAR CELL	WL 2
5	033		Dolok Sanggul - Siborong Borong	2°16'02.2"N 2°16'04.0"N	98°45'58.6"E 98°46'57.6"E	28,48	7,13	SOLAR CELL	WL 2
6	042		Bts Prov Aceh - Saragih - Manduamas - Barus	2°08'14.2"N 2°08'08.0"N	98°16'29.5"E 98°16'34.6"E	50,02	5,1	SOLAR CELL	WL 2
7	043		Barus - Bts Kota Sibolga	1°54'21.7"N 1°54'37.4"N	98°36'52.3"E 98°37'02.5"E	60,63	7,0	SOLAR CELL	WL 2
8	057		Bts Kab Karo - Panji	2°51'06.1"N 2°50'53.8"N	98°28'14.2"E 98°28'10.9"E	29,81	7,80	SOLAR CELL	WL 2
9	058		Bts. Prov. Aceh - Bts Kota Sidikalan	2°57'09.7"N 2°56'59.7"N	98°11'39.8"E 98°11'46.9"E	39,87	6,5	SOLAR CELL	WL 2

10	060		Bts Kab Karo - Saribu Dolok	2°55'59.7"N 2°56'10.8"N	98°33'32.6"E 98°34'52.0"E	8,59	8,55	SOLAR CELL	WL 2
11	061		Saribu Dolok - Tiga Runggu	2°54'54.5"N 2°54'59.9"N	98°40'18.7"E 98°40'25.6"E	14,95	8,55	SOLAR CELL	WL 2
TOTAL						380,95			22

B. PENERIMA MANFAAT

Penerima manfaat dari kegiatan Pengadaan dan Pemasangan Perlengkapan Jalan adalah masyarakat pengguna jasa transportasi jalan baik pengguna kendaraan bermotor, pejalan kaki, pengguna angkutan umum maupun angkutan barang serta Direktorat Jenderal Perhubungan Darat sebagai regulator yang melaksanakan kegiatan pengadaan dan pemasangan perlengkapan jalan.

C. STRATEGI PENCAPAIAN KELUARAN

1. Metode Pelaksanaan

Proses pengadaan barang/jasa dalam kegiatan Pengadaan dan Pemasangan Marka Jalan dilakukan dengan cara pelelangan umum dengan cara pelaksanaan berupa Kegiatan Kontraktual. Adapun penyusunan Kerangka Acuan Kerja ini adalah untuk keperluan perencanaan dan bukan sebagai KAK untuk pelaksanaan pengadaan barang/jasa.

2. Jenis Perlengkapan Jalan

Jenis perlengkapan jalan yang diusulkan dalam Kerangka Acuan Kerja ini adalah:

- a. Marka
- b. Rambu
- c. Paku Jalan
- d. Alat Penerangan Jalan
- e. *Warning Light*

3. Tahapan dan Waktu Pelaksanaan

Pelaksanaan kegiatan ini akan dilakukan secara terjadwal pada tahun anggaran 2024 sesuai dengan rencana pengadaan yang disusun oleh

Satuan Kerja, dengan lamanya waktu pelaksanaan disesuaikan dengan jadwal yang ditetapkan oleh Satuan Kerja dengan ketentuan tidak melebihi batas akhir tahun anggaran 2024 dengan tahapan sebagai berikut :

No	Kegiatan	Bulan											
		1	2	3	4	5	6	7	8	9	10	11	12
1	DIPA diterima												
2	Proses Pelelangan												
3	Pelaksanaan Kegiatan												
4	Pemeliharaan												
5	Serah Terima Operasional												

D. KURUN WAKTU PENCAPAIAN KELUARAN

Waktu yang dibutuhkan dalam pelaksanaan pekerjaan Pengadaan dan Pemasangan Perlengkapan jalan rata-rata selama 150 (seratus lima puluh) hari kalender untuk masing-masing kontrak perlengkapan jalan.

E. BIAYA YANG DIPERLUKAN

Biaya yang dibutuhkan untuk melaksanakan kegiatan Pengadaan dan Pemasangan Perlengkapan Jalan sebesar **Rp. 20.438.920.000,00 (Dua Puluh Miliar Empat Ratus Tiga Puluh Delapan Juta Sembilan Ratus Dua Puluh Ribu Rupiah)**. Rencana Anggaran Biaya (RAB) dari pekerjaan ini dirinci dan dijabarkan dalam Lampiran.

Mengetahui :
Plt DIREKTUR LALU LINTAS JALAN



Ditandatangani secara elektronik
RUDI IRAWAN, S.SIT, MT

Medan, Oktober 2023
Mengusulkan :
KEPALA
BALAI PENGELOLA TRANSPORTASI DARAT
KELAS II SUMATERA UTARA



Ditandatangani secara elektronik
DADAN M. RAMDAN, ATD, MSI

NIP. 19740522 199703 1 002

HANYA UNTUK PROSES E-PLANNING
BUKAN UNTUK DOKUMEN LELANG / E-CATALOG