



PERATURAN PEMERINTAH REPUBLIK INDONESIA
NOMOR 45 TAHUN 2003
TENTANG
TARIF ATAS JENIS PENERIMAAN NEGARA BUKAN PAJAK
YANG BERLAKU PADA DEPARTEMEN ENERGI DAN
SUMBER DAYA MINERAL

PRESIDEN REPUBLIK INDONESIA,

Menimbang : bahwa untuk melaksanakan ketentuan Undang-undang Nomor 20 Tahun 1997 tentang Penerimaan Negara Bukan Pajak, dipandang perlu menetapkan Peraturan Pemerintah tentang Tarif Atas Jenis Penerimaan Negara Bukan Pajak yang Berlaku pada Departemen Energi dan Sumber Daya Mineral;

Mengingat : 1. Pasal 5 ayat (2) Undang-Undang Dasar 1945 sebagaimana telah diubah dengan Perubahan Keempat Undang-Undang Dasar 1945;

2. Undang-undang Nomor 11 Tahun 1967 tentang Ketentuan-ketentuan Pokok Pertambangan (Lembaran Negara Republik Indonesia Tahun 1967 Nomor 22, Tambahan Lembaran Negara Nomor 2831);
3. Undang-undang Nomor 20 Tahun 1997 tentang Penerimaan Negara Bukan Pajak (Lembaran Negara Republik Indonesia Tahun 1997 Nomor 43, Tambahan Lembaran Negara Nomor 3687);
44. Undang-undang Nomor 22 Tahun 2001 tentang Minyak dan Gas Bumi (Lembaran Negara Republik Indonesia Tahun 2001 Nomor 136, Tambahan Lembaran Negara Nomor 4152);
55. Peraturan Pemerintah Nomor 22 Tahun 1997 tentang Jenis dan Penyetoran Penerimaan Negara Bukan Pajak, (Lembaran Negara Republik Indonesia Tahun 1997 Nomor 57, Tambahan Lembaran Negara Nomor 3694) sebagaimana telah diubah dengan Peraturan Pemerintah Nomor 52 Tahun 1998 (Lembaran Negara Republik Indonesia Tahun 1998 Nomor 85, Tambahan Lembaran Negara Nomor 3759);

MEMUTUSKAN :

Menetapkan : PERATURAN PEMERINTAH TENTANG TARIF ATAS JENIS PENERIMAAN NEGARA BUKAN PAJAK YANG BERLAKU PADA DEPARTEMEN ENERGI DAN SUMBER DAYA MINERAL.

Pasal 1

- (1) Tarif atas Jenis Penerimaan Negara Bukan Pajak yang berlaku pada Departemen Energi dan Sumber Daya Mineral sebagaimana dimaksud dalam lampiran IIA Angka (8) Peraturan Pemerintah Nomor 22 Tahun 1997 tentang Jenis dan Penyetoran Penerimaan Negara Bukan Pajak sebagaimana telah diubah dengan Peraturan Pemerintah Nomor 52 Tahun 1998, adalah sebagaimana tercantum dalam Peraturan Pemerintah ini.
- (2) Jenis Penerimaan Negara Bukan Pajak yang berlaku pada Departemen Energi dan Sumber Daya Mineral berasal dari :
 - aPelayanan Jasa Bidang Geologi dan Sumber Daya Mineral;
 - bIuran Tetap/Landrent;
 - cIuran Eksplorasi/Iuran Eksploitasi/Royalty;
 - dDana Hasil Produksi Batubara;
 - eJasa Teknologi/Konsultasi Eksplorasi Mineral, Batubara, Panas Bumi dan Konservasi;
 - fJasa Teknologi Vulkanologi dan Mitigasi Bencana Geologi;
 - gPelayanan Jasa Bidang Minyak dan Gas Bumi;
 - hPelayanan Jasa Bidang Penelitian dan Pengembangan; dan
 - iPelayanan Jasa Bidang Pendidikan dan Pelatihan.

Pasal 2

Jenis Penerimaan Negara Bukan Pajak sebagaimana dimaksud dalam Pasal 1 mempunyai tarif dalam bentuk Rupiah, Dollar Amerika, Persentase.

Pasal 3

- (1) Besaran bagian Pemerintah atas penerimaan Dana Hasil Produksi Batubara dihitung berdasarkan Perjanjian Karya Pengusahaan Pertambangan Batubara (PKP2B).
- (2) Perjanjian Karya Pengusahaan Pertambangan Batubara (PKP2B) sebagaimana dimaksud dalam ayat (1) ditetapkan oleh Menteri Energi dan Sumber Daya Mineral setelah mendapat pertimbangan dari Menteri Keuangan.

Pasal 4

Terhadap pemegang Kuasa Pertambangan (KP) Penyelidikan Umum atau Kuasa Pertambangan (KP) Eksplorasi termasuk perpanjangannya untuk daerah-daerah Provinsi Nusa Tenggara Timur, Provinsi Maluku, Provinsi Maluku Utara, dan Provinsi Papua diberikan keringanan atas pembayaran Iuran

Tetap/Landrent sebesar 50% (lima puluh persen) dari tarif yang berlaku sebagaimana dimaksud dalam Lampiran Peraturan Pemerintah ini.

Pasal 5

- (1) Besarnya tarif atas Pelayanan Jasa Bidang Minyak dan Gas Bumi yang berupa Pengelolaan Data Survei Umum Minyak dan Gas Bumi, dan Jasa Pelayanan Pemanfaatan Data Minyak dan Gas Bumi ditetapkan berdasarkan kontrak.
- (2) Kontrak sebagaimana dimaksud dalam ayat (1) ditetapkan lebih lanjut oleh Menteri Energi dan Sumber Daya Mineral setelah mendapat persetujuan dari Menteri Keuangan.

Pasal 6

Besarnya tarif atas jenis Pelayanan Jasa Bidang Penelitian dan Pengembangan Energi dan Sumber Daya Mineral dihitung berdasarkan formula sebagai berikut :

a. Tarif atas Jasa Laboratorium : $T = T_d \times (A + B)$;

b. Tarif atas Jasa Penerapan Teknologi dihitung berdasarkan harga pasar yang berlaku wajar serta didasarkan pada dokumen yang dapat dipertanggungjawabkan dengan tarif setinggi-tingginya untuk :

1. Ahli Kepala US\$ 150/orang/jam
2. Ahli Madya US\$ 140/orang/jam
3. Ahli US\$ 130/orang/jam
4. Ahli Muda US\$ 120/orang/jam
5. Teknisi US\$ 100/orang/jam

Pasal 7

- (1) Besarnya tarif Pelayanan Jasa Bidang Pendidikan dan Pelatihan, dan pelayanan kegiatan sebagaimana dimaksud dalam angka 1 huruf B, C dan D Lampiran Peraturan Pemerintah ini, dihitung berdasarkan formula : $T = (1 + X) \times T_d$
- (2) Besaran komponen formula tarif sebagaimana dimaksud dalam ayat (1) ditetapkan lebih lanjut oleh Menteri Energi dan Sumber Daya Mineral setelah mendapat persetujuan dari Menteri Keuangan.

Pasal 8

Seluruh Penerimaan Negara Bukan Pajak yang berlaku pada Departemen Energi dan Sumber Daya Mineral wajib disetor langsung secepatnya ke Kas Negara.

Pasal 9

Tata cara pengenaan, pemungutan dan penyetoran Penerimaan Negara Bukan Pajak diatur lebih lanjut oleh Menteri Keuangan dengan memperhatikan pertimbangan dari Menteri Energi dan Sumber Daya Mineral.

Pasal 10

Tarif atas jenis Penerimaan Negara Bukan Pajak yang berlaku pada Departemen Energi dan Sumber Daya Mineral yang belum tercakup dalam Peraturan Pemerintah ini, akan disusulkan sebagai bagian yang tidak terpisahkan dalam Peraturan Pemerintah ini dan pencantuman-nya dilakukan dengan Peraturan Pemerintah tersendiri.

Pasal 11

Dengan berlakunya Peraturan Pemerintah ini, Peraturan Pemerintah Nomor 58 Tahun 1998 tentang Tarif atas Jenis Penerimaan Negara Bukan Pajak yang Berlaku pada Departemen Pertambangan dan Energi di Bidang Pertambangan Umum sebagaimana telah diubah dengan Peraturan Pemerintah Nomor 13 Tahun 2000, dinyatakan tidak berlaku.

Pasal 12

Peraturan Pemerintah ini mulai berlaku sejak tanggal diundangkan.

Agar setiap orang mengetahuinya, memerintahkan pengundangan Peraturan Pemerintah ini dengan penempatannya dalam Lembaran Negara Republik Indonesia.

Ditetapkan di Jakarta
pada tanggal 31 Juli 2003
PRESIDEN REPUBLIK INDONESIA,
ttd
MEGAWATI SOEKARNOPUTRI

Diundangkan di Jakarta
pada tanggal 31 Juli 2003
SEKRETARIS NEGARA REPUBLIK INDONESIA

ttd
BAMBANG KESOWO

Salinan sesuai dengan aslinya,
Deputi Sekretaris Kabinet
Bidang Hukum dan Perundang-undangan

Lambock V. Nahattands

PENJELASAN
ATAS
PERATURAN PEMERINTAH REPUBLIK INDONESIA
NOMOR 45 TAHUN 2003
TENTANG
TARIF ATAS JENIS PENERIMAAN NEGARA BUKAN PAJAK
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UMUM

Dalam rangka mengoptimalkan Penerimaan Negara Bukan Pajak guna menunjang Pembangunan Nasional Penerimaan Negara Bukan Pajak pada Departemen Energi dan Sumber Daya Mineral sebagai salah satu sumber penerimaan negara perlu dikelola dan dimanfaatkan untuk peningkatan pelayanan kepada masyarakat. Sehubungan dengan hal tersebut dan untuk memenuhi ketentuan Undang-undang Nomor 20 Tahun 1997 tentang Penerimaan Negara Bukan Pajak, perlu ditetapkan Peraturan Pemerintah tentang Tarif Atas Jenis Penerimaan Negara Bukan Pajak yang Berlaku pada Departemen Energi dan Sumber Daya Mineral.

PASAL DEMI PASAL

Pasal 1

Cukup jelas

Pasal 2

Cukup jelas

Pasal 3

Cukup jelas

Pasal 4

Cukup jelas

Pasal 5

Yang dimaksud dengan persetujuan Menteri Keuangan dalam ketentuan ini menyangkut besarnya tarif sebagaimana dimaksud dalam ayat (1).

Pasal 6

Huruf a

T = Tarif

Td = Tarif dasar adalah tarif sebagaimana tercantum dalam Lampiran Peraturan Pemerintah ini.

A = Pengguna jasa, dengan persentase tarif sebagai berikut :

- 1) Swasta Asing = 100% (seratus persen);
- 2) Swasta Nasional = 80% (delapan puluh persen);
- 3) BUMN/BUMD = 70% (tujuh puluh persen);
- 4) Pemerintah = 60% (enam puluh persen);
- 5) Perguruan Tinggi = 50% (lima puluh persen);
- 6) Intern Balitbang DESDM = 40% (empat puluh persen);
- 7) Mahasiswa = 30% (tiga puluh persen).

B = Aspek teknis dan lapangan

Apabila sampling atau survei lapangan :

1) Sukar :

- a) Akomodasi dan transportasi sudah tersedia = 0% (nol persen);
- b) Akomodasi dan transportasi belum tersedia = 10% (sepuluh persen).

2) Tidak Sukar

- a) Akomodasi dan transportasi sudah tersedia = -5% (minus lima persen);
- b) Akomodasi dan transportasi belum tersedia = 5% (lima persen).

Huruf b

Cukup jelas

Pasal 7

Ayat (1)

T = Tarif

X = Faktor untuk penyesuaian harga dasar dengan biaya yang seharusnya atas jasa yang diberi sesuai dengan kebutuhan dan perkembangan di lapangan (resiko).

Td = Tarif dasar adalah tarif sebagaimana tercantum dalam Lampiran Peraturan Pemerintah ini.

Ayat (2)

Cukup jelas

Pasal 8

Pengertian Kas Negara adalah sebagaimana dimaksud dalam Undang-undang Nomor 20 Tahun 1997
Penerimaan Negara Bukan Pajak.

Pasal 9

Cukup jelas

Pasal 10

Cukup jelas

Pasal 11

Cukup jelas

Pasal 12

Cukup jelas

TAMBAHAN LEMBARAN NEGARA REPUBLIK INDONESIA NOMOR 4314.

Lampiran ... >>>

PERATURAN PEMERINTAH REPUBLIK INDONESIA
NOMOR 45 TAHUN 2003
TANGGAL 31 JULI 2003

TARIF ATAS JENIS PENERIMAAN NEGARA BUKAN PAJAK YANG BERLAKU
PADA DEPARTEMEN ENERGI DAN SUMBER DAYA MINERAL

| JENIS PENERIMAAN NEGARA BUKAN PAJAK | SATUAN | TARIF |
|---|----------------|-------------------|
| I. Direktorat Jenderal Geologi dan Sumber Daya Mineral | | |
| A. Sekretariat Direktorat Jenderal Geologi dan Sumber Daya Mineral | | |
| 1. Penerimaan dari Pelayanan Jasa Bidang Geologi dan Sumber Daya Mineral | | |
| a. Jasa Pelayanan Penelusuran Informasi serta Perhitungan dan Penetapan Koordinat batas Wilayah Pertambangan | | |
| 1) Penelusuran informasi wilayah | Per 15 menit | Rp 100.000,00 |
| 2) Perhitungan dan penetapan koordinat batas wilayah dan penerbitan peta | Per blok | Rp 10.000.000,00 |
| b. Jasa Pelayanan Pemberian Peta Informasi Wilayah Pertambangan dan/atau Peta Dokumen Perijinan | | |
| 1) Peta informasi ukuran A0 | Per penerbitan | Rp 1.500.000,00 |
| 2) Peta informasi ukuran A1 | Per penerbitan | Rp 1.000.000,00 |
| 3) Peta informasi ukuran A3 | Per penerbitan | Rp 500.000,00 |
| 4) Peta untuk lampiran dokumen perijinan (3 eksemplar) | Per penerbitan | Rp 1.000.000,00 |
| 5) Peta digital wilayah pertambangan | Per penerbitan | Rp 2.000.000,00 |
| c. Jasa Kompilasi dan Evaluasi Data Wilayah Eks Kuasa Pertambangan (KP), Kontrak Karya (KK), Perjanjian Karya Pengusahaan Pertambangan Batubara (PKP2B) dan Surat Ijin Penyelidikan Pendahuluan (SIPP) serta Jasa Kompensasi prioritasnya | | |
| 1) Non Batubara | | |
| a) Kelas A | | |
| (1) luas wilayah \leq 2.000 ha | Per permohonan | Rp 50.000.000,00 |
| (2) luas wilayah > 2.000 10.000 ha | Per permohonan | Rp 75.000.000,00 |
| (3) luas wilayah > 10.000 50.000 ha | Per permohonan | Rp 100.000.000,00 |
| (4) luas wilayah > 50.000 100.000 ha | Per permohonan | Rp 150.000.000,00 |
| (5) luas wilayah > 100.000 ha | Per permohonan | Rp 200.000.000,00 |
| b) Kelas B | | |
| (1) luas wilayah \leq 2.000 ha | Per permohonan | Rp 25.000.000,00 |
| (2) Luas wilayah > 2.000 10.000 ha | Per permohonan | Rp 50.000.000,00 |
| (3) luas wilayah > 10.000 50.000 ha | Per permohonan | Rp 75.000.000,00 |
| (4) luas wilayah > 50.000 100.000 ha | Per permohonan | Rp 100.000.000,00 |

| | | | |
|--|----------------|----|----------------|
| (5) luas wilayah > 100.000 ha | Per permohonan | Rp | 150.000.000,00 |
| 2) Batubara | | | |
| a) Kelas A | | | |
| (1) luas wilayah \leq 2.000 ha | Per permohonan | Rp | 75.000.000,00 |
| (2) luas wilayah > 2.000 10.000 ha | Per permohonan | Rp | 100.000.000,00 |
| (3) luas wilayah > 10.000 50.000 ha | Per permohonan | Rp | 150.000.000,00 |
| (4) luas wilayah > 50.000 100.000 ha | Per permohonan | Rp | 200.000.000,00 |
| (5) luas wilayah > 100.000 ha | Per permohonan | Rp | 250.000.000,00 |
| b) Kelas B | | | |
| (1) luas wilayah \leq 2.000 ha | Per permohonan | Rp | 25.000.000,00 |
| (2) luas wilayah > 2.000 10.000 ha | Per permohonan | Rp | 50.000.000,00 |
| (3) luas wilayah > 10.000 50.000 ha | Per permohonan | Rp | 75.000.000,00 |
| (4) luas wilayah > 50.000 100.000 ha | Per permohonan | Rp | 100.000.000,00 |
| (5) Luas wilayah > 100.000 ha | Per permohonan | Rp | 150.000.000,00 |
| d. Jasa Kompensasi Prioritas untuk Kompilasi dan Evaluasi data wilayah Eks Kuasa Pertambangan, Kontrak Karya, Perjanjian Karya Pengusahaan Pertambangan Batubara dan Ijin Penyelidikan Pendahuluan bagi Bahan Galian Non Batubara dan Batubara | | | |
| 1) luas wilayah \leq 2.000 ha | Per permohonan | Rp | 100.000.000,00 |
| 2) luas wilayah > 2.000 10.000 ha | Per permohonan | Rp | 200.000.000,00 |
| 3) luas wilayah > 10.000 50.000 ha | Per permohonan | Rp | 300.000.000,00 |
| 4) luas wilayah > 50.000 100.000 ha | Per permohonan | Rp | 400.000.000,00 |
| 5) luas wilayah > 100.000 ha | Per permohonan | Rp | 500.000.000,00 |
| 2. Penerimaan dari Iuran Tetap/Landrent untuk Usaha Pertambangan Umum dalam rangka Kuasa Pertambangan | | | |
| a. Penyelidikan Umum | | | |
| 1) Tahun ke I | Per ha/tahun | Rp | 500,00 |
| 2) Tahun ke II | Per ha/tahun | Rp | 1.000,00 |
| b. Eksplorasi | | | |
| 1) Tahun ke I | Per ha/tahun | Rp | 2.000,00 |
| 2) Tahun ke II | Per ha/tahun | Rp | 2.500,00 |
| 3) Tahun ke III | Per ha/tahun | Rp | 3.000,00 |
| c. Perpanjangan Eksplorasi | | | |
| 1) Tahun ke I | Per ha/tahun | Rp | 5.000,00 |
| 2) Tahun ke II | Per ha/tahun | Rp | 7.000,00 |
| d. Pembangunan Fasilitas Eksploitasi | | | |
| 1) Tahun ke I | Per ha/tahun | Rp | 8.000,00 |
| 2) Tahun ke II | Per ha/tahun | Rp | 8.000,00 |
| 3) Tahun ke III | Per ha/tahun | Rp | 8.000,00 |
| e. Eksploitasi | | | |
| 1) Tahap ke I untuk endapan laterit dan endapan permukaan (surface deporsits) yang meluas lainnya | Per ha/tahun | Rp | 15.000,00 |
| 2) Tahap ke II untuk endapan primer dan endapan aluvial-aluvial. | Per ha/tahun | Rp | 25.000,00 |

| | | | |
|--|--------------|-----------------------|------|
| 3. Penerimaan dari Iuran Tetap/Landrent untuk Usaha Pertambangan dalam rangka Kontrak Karya dan Perjanjian Karya Pengusahaan Pertambangan Batubara | | | |
| a. Penyelidikan Umum | | | |
| 1) Tahun ke I | Per ha/tahun | US\$ | 0.05 |
| 2) Tahun ke II | Per ha/tahun | US\$ | 0.10 |
| b. Eksplorasi | | | |
| 1) Tahun ke I | Per ha/tahun | US\$ | 0.20 |
| 2) Tahun ke II | Per ha/tahun | US\$ | 0.25 |
| 3) Tahun ke III | Per ha/tahun | US\$ | 0.30 |
| 4) Tahun ke IV | Per ha/tahun | US\$ | 0.50 |
| 5) Tahun ke V | Per ha/tahun | US\$ | 0.70 |
| c. Studi Kelayakan (Feasibility Study) | | | |
| 1) Tahun ke I | Per ha/tahun | US\$ | 1.00 |
| 2) Tahun ke II | Per ha/tahun | US\$ | 1.00 |
| d. Konstruksi | | | |
| 1) Tahun ke I | Per ha/tahun | US\$ | 1.00 |
| 2) Tahun ke II | Per ha/tahun | US\$ | 1.00 |
| 3) Tahun ke III | Per ha/tahun | US\$ | 1.00 |
| e. Eksploitasi | | | |
| 1) Tahap ke I untuk endapan laterit dan endapan permukaan (surface deposits) yang meluas lainnya | Per ha/tahun | US\$ | 2.00 |
| 2) Tahap ke I untuk endapan primer dan endapan aluvial-aluvial. | Per ha/tahun | US\$ | 4.00 |
| 4. Penerimaan dari Iuran Eksplorasi/Iuran Eksploitasi/Royalty untuk Usaha Pertambangan dalam rangka Kuasa Pertambangan (KP), Kontrak Karya (KK), dan Perjanjian Karya Pengusahaan Pertambangan Batubara (PKP2B), dengan jenis mineral/bahan galian : | | | |
| a. Batubara (Open Pit) dengan tingkat kalori (Kkal/kg, airdried basis) : | | | |
| 1) ≤ 5100 | Per ton | 3,00% dari harga jual | |
| 2) > 5100 6100 | Per ton | 5,00% dari harga jual | |
| 3) > 6100 | Per ton | 7,00% dari harga jual | |
| b. Batubara (Under ground) Tingkat Kalori (Kualitas) : | | | |
| 1) ≤ 5100 | Per ton | 2,00% dari harga jual | |
| 2) > 5100 6100 | Per ton | 4,00% dari harga jual | |
| 3) > 6100 | Per ton | 6,00% dari harga jual | |
| c. Gambut | Per ton | 3,00% dari harga jual | |
| d. Bijih Nikel (Garnieritik) | Per ton | 5,00% dari harga jual | |
| e. Bijih Nikel (Limonitik) | Per ton | 4,00% dari harga jual | |
| f. Kobal | Per ton | 5,00% dari harga | |

| | | |
|------------------|---------|-----------------------|
| g. Timah | Per ton | 3,00% dari harga jual |
| h. Tembaga | Per ton | 4,00% dari harga jual |
| i. Timbal | Per ton | 3,00% dari harga jual |
| j. Seng | Per ton | 3,00% dari harga jual |
| k. Besi | Per ton | 3,00% dari harga jual |
| l. Emas | Per kg | 3,75% dari harga jual |
| m. Perak | Per kg | 3,25% dari harga jual |
| n. Platina | Per kg | 3,75% dari harga jual |
| o. Air Raksa | Per kg | 3,75% dari harga jual |
| p. Antimonit | Per kg | 4,50% dari harga jual |
| q. Bismut | Per kg | 4,50% dari harga jual |
| r. Wolfram | Per ton | 4,50% dari harga jual |
| s. Vanadium | Per ton | 4,50% dari harga jual |
| t. Molibdenit | Per ton | 4,50% dari harga jual |
| u. Titan | Per ton | 3,50% dari harga jual |
| v. Kromit | Per ton | 3,50% dari harga jual |
| w. Monasit | Per ton | 4,50% dari harga jual |
| x. Xenotin | Per ton | 4,50% dari harga jual |
| y. Ilmenit | Per ton | 2,50% dari harga jual |
| z. Zircon | Per ton | 4,50% dari harga jual |
| aa. Rutil | Per ton | 4,50% dari harga jual |
| bb. Pasir Besi | Per ton | 3,75% dari harga jual |
| cc. Belerang | Per ton | 3,50% dari harga jual |
| dd. Bauksit | Per ton | 3,75% dari harga jual |
| ee. Mangan | Per ton | 3,25% dari harga jual |
| ff. Batuan Aspal | Per ton | 3,75% dari harga jual |
| gg. Barit | Per ton | 3,25% dari harga jual |
| hh. Yodium | Per ton | 3,75% dari harga jual |

| | | | | | |
|--|--|-----------------------------|----|------|------------------|
| ii. | Kristal Kuarsa | Per ton | | jual | 3,75% dari harga |
| jj. | Pirit | Per ton | | jual | 2,50% dari harga |
| kk. | Intan | Per ton | | jual | 6,50% dari harga |
| | | | | jual | |
| ll. | Granit | | | | |
| | 1) Granit Blok | Per ton | | | 4,00% dari harga |
| | 2) Granit Bubuk/Pecah | Per ton | | | 3,00% dari harga |
| | | | | jual | |
| B. Direktorat Inventarisasi Sumber Daya Mineral | | | | | |
| 1. Jasa Teknologi/Konsultasi Eksplorasi Mineral, Batubara, Panas Bumi dan Konservasi | | | | | |
| a. Penyelidikan / Eksplorasi | | | | | |
| | 1) Penyelidikan umum, skala 1:100.000 s/d 1:250.000 | Per km ² | Rp | | 150.000,00 |
| | 2) Eksplorasi Pendahuluan, skala 1:50.000 s/d 1:100.000 | Per km ² | Rp | | 400.000,00 |
| | 3) Eksplorasi Rinci, skala < 1:50.000 | Per km ² | Rp | | 1.000.000,00 |
| b. Pemboran (Biaya Pengintian) | | | | | |
| | 1) Mineral Logam | Per meter | Rp | | 400.000,00 |
| | 2) Batubara/ Mineral Non Logam | Per meter | Rp | | 300.000,00 |
| 2. Jasa Perbantuan Tenaga Ahli | | | | | |
| a. | Senior Geologist/Geophysist | Per orang/hari | Rp | | 300.000,00 |
| b. | Junior Geologist/Geophysist | Per orang/hari | Rp | | 200.000,00 |
| c. | Surveyor | Per orang/hari | Rp | | 175.000,00 |
| d. | Operator/Mekanik | Per orang/hari | Rp | | 150.000,00 |
| e. | Senior Drilling | Per orang/hari | Rp | | 175.000,00 |
| f. | Junior Drilling | Per orang/hari | Rp | | 150.000,00 |
| 3. Jasa Penyelidikan Geofisika Mineral, Batubara dan Panas Bumi | | | | | |
| a. Geolistrik | | | | | |
| | 1) Penyelidikan Panas Bumi | | | | |
| | a) Mapping/Titik Amat (AB/2=250,500,750, 1000 meter) | Per titik lokasi pengamatan | Rp | | 300.000,00 |
| | b) Sounding/Titik Amat (AB/2=1.6 s/d 2000 meter) | Per titik lokasi pengamatan | Rp | | 900.000,00 |
| | 2) Penyelidikan Mineral | | | | |
| | a) Mapping/Titik Amat (AB/2=50,100,200, 300, 400 dan 500 meter) | Per titik lokasi pengamatan | Rp | | 200.000,00 |
| | b) Sounding/Titik Amat (AB/2=1.6 s/d 500 meter) | Per titik lokasi pengamatan | Rp | | 500.000,00 |
| b. Induced Polarisasi (IP) | | | | | |
| | 1) Penyelidikan Mineral | | | | |
| | a) Mapping/Km : Jarak antar titik ukur : 25 meter, Jarak antar elektroda : 25 meter atau 50 meter (M=5) (Waktu pekerjaan /hari = 300-400 meter). | Per km | Rp | | 4.500.000,00 |
| | b) Mapping/Km (Jarak antar titik | Per km | Rp | | 3.000.000,00 |

ukur : 50 meter, Jarak antar elektroda : 25 meter atau 50 meter (N=5) (Waktu pekerjaan /hari = 500-600 meter).

| | | | | |
|----|--|------------|----|--------------|
| c. | Proton Magnetometer (Penyelidikan Mineral, Panas Bumi) | | | |
| 1) | Penyelidikan Mineral, interval 25-50 meter, sepanjang lintasan maupun random | Per titik | Rp | 100.000,00 |
| 2) | Penyelidikan Panas Bumi, interval 250-500 meter, sepanjang lintasan maupun random dan regional (Waktu pekerjaan 2,5-5 km/hari) (10 titik amat) | Per titik | Rp | 500.000,00 |
| d. | Gravimeter (Pekerjaan Survey Mineral , Panas Bumi) | | | |
| 1) | Survey Mineral, interval 25-50 meter, sepanjang lintasan maupun random | Per meter | Rp | 125.000,00 |
| 2) | Survey Panas Bumi, interval 250-500 meter, sepanjang lintasan maupun random dan regional (Waktu pekerjaan 2 km/hari) (80 titik amat) | Per meter | Rp | 600.000,00 |
| e. | Pekerjaan Survey Mineral & Panas Bumi | | | |
| 1) | Logging Mineral variasi kedalaman 50 -250 meter, lubang bor minimal 5 buah | Per meter | Rp | 25.000,00 |
| 2) | Logging Panas Bumi variasi kedalaman 100-1500 meter, lubang bor minimal 1 buah | Per meter | Rp | 60.000,00 |
| f. | CSAMT (Pekerjaan Survey Panas Bumi & Mineral Receiver : V4 (2 dan 6 Channel), Transmitter : IPT-1 | Per set | Rp | 2.000.000,00 |
| 4. | Jasa Analisis Laboratorium Kimia, Fisika Mineral dan Batubara | | | |
| | Laboratorium Kimia Mineral | | | |
| 1) | Analisis Bakar | | | |
| a) | Preparasi Conto | Per sample | Rp | 25.000,00 |
| b) | HNO ₃ 50% / AAS | | | |
| | (1) Cu | Per unsur | Rp | 10.000,00 |
| | (2) Pb | Per unsur | Rp | 10.000,00 |
| | (3) Co | Per unsur | Rp | 10.000,00 |
| | (4) Ni | Per unsur | Rp | 10.000,00 |
| | (5) Mn | Per unsur | Rp | 10.000,00 |
| | (6) Ag | Per unsur | Rp | 10.000,00 |
| c) | HF / HClO ₄ / AAS | | | |
| | (1) Cu | Per unsur | Rp | 15.000,00 |
| | (2) Pb | Per unsur | Rp | 15.000,00 |
| | (3) Co | Per unsur | Rp | 15.000,00 |
| | (4) Ni | Per unsur | Rp | 15.000,00 |
| | (5) Mn | Per unsur | Rp | 15.000,00 |
| | (6) Ag | Per unsur | Rp | 15.000,00 |
| | (7) Li | Per unsur | Rp | 15.000,00 |
| | (8) K | Per unsur | Rp | 15.000,00 |
| | (9) Fe | Per unsur | Rp | 15.000,00 |
| | (10) Cr | Per unsur | Rp | 20.000,00 |
| | (11) Ca | Per unsur | Rp | 20.000,00 |
| | (12) Ba | Per unsur | Rp | 20.000,00 |
| | (13) Rb | Per unsur | Rp | 20.000,00 |
| | (14) Sr | Per unsur | Rp | 20.000,00 |
| | (15) CD | Per unsur | Rp | 20.000,00 |

| | | | |
|---|------------|----|------------|
| (16) Mg | Per unsur | Rp | 20.000,00 |
| (17) Bi | Per unsur | Rp | 20.000,00 |
| (18) Na | Per unsur | Rp | 20.000,00 |
| d) Kalorimetri / ICP | | | |
| Mo | Per unsur | Rp | 30.000,00 |
| e) Kalorimetri / AAS Hidrir | | | |
| (1) Sb | Per unsur | Rp | 25.000,00 |
| (2) Sn | Per unsur | Rp | 35.000,00 |
| (3) As | Per unsur | Rp | 40.000,00 |
| f) Kalorimetri | | | |
| (1) V | Per unsur | Rp | 25.000,00 |
| (2) W | Per unsur | Rp | 25.000,00 |
| g) MIBK Extraction / AAS | | | |
| Au | Per unsur | Rp | 50.000,00 |
| h) Fire Assay/AAS | | | |
| Au | Per unsur | Rp | 125.000,00 |
| i) AAS/N2O/ICP | | | |
| Al | Per unsur | Rp | 30.000,00 |
| j) Spektro/ICP | | | |
| Zr | Per unsur | Rp | 40.000,00 |
| k) AAS/Hidrid | | | |
| (1) Hg | Per unsur | Rp | 60.000,00 |
| (2) Se | Per unsur | Rp | 40.000,00 |
| (3) Te | Per unsur | Rp | 40.000,00 |
| l) AAS/N2O | | | |
| Ti | Per unsur | Rp | 30.000,00 |
| m) ICP | | | |
| (1) Be | Per unsur | Rp | 45.000,00 |
| (2) In | Per unsur | Rp | 45.000,00 |
| (3) Ce | Per unsur | Rp | 45.000,00 |
| (4) Pr | Per unsur | Rp | 45.000,00 |
| (5) Nd | Per unsur | Rp | 45.000,00 |
| (6) Eu | Per unsur | Rp | 45.000,00 |
| (7) Gd | Per unsur | Rp | 45.000,00 |
| (8) Yb | Per unsur | Rp | 45.000,00 |
| (9) Tm | Per unsur | Rp | 45.000,00 |
| (10) Lu | Per unsur | Rp | 45.000,00 |
| (11) Tb | Per unsur | Rp | 45.000,00 |
| (12) Ho | Per unsur | Rp | 45.000,00 |
| (13) Sm | Per unsur | Rp | 45.000,00 |
| (14) La | Per unsur | Rp | 45.000,00 |
| (15) Nb | Per unsur | Rp | 45.000,00 |
| (16) Ta | Per unsur | Rp | 45.000,00 |
| (17) Ga | Per unsur | Rp | 45.000,00 |
| (18) Ge | Per unsur | Rp | 45.000,00 |
| (19) Sc | Per unsur | Rp | 45.000,00 |
| 2) Analisis X-Ray | | | |
| a) XRD Bulk | Per sample | Rp | 60.000,00 |
| b) XRD Clay | Per sample | Rp | 80.000,00 |
| c) XRF (SiO ₂ ; Al ₂ O ₃ ; CaO; MgO; MnO; TiO ₂ ; H ₂ O) | Per sample | Rp | 120.000,00 |
| 3) Analisis Konvensional | | | |
| Konvensional | | | |
| (1) SiO ₂ | Per sample | Rp | 22.800,00 |
| (2) Al ₂ O ₃ | Per sample | Rp | 22.800,00 |
| (3) Fe ₂ O ₃ | Per sample | Rp | 22.800,00 |

| | | | |
|---|------------|----|------------|
| (4) CaO | Per sample | Rp | 17.100,00 |
| (5) MgO | Per sample | Rp | 17.100,00 |
| (6) TiO ₂ | Per sample | Rp | 17.100,00 |
| (7) Na ₂ O | Per sample | Rp | 17.100,00 |
| (8) K ₂ O | Per sample | Rp | 17.100,00 |
| (9) FeO | Per sample | Rp | 17.100,00 |
| (10) P ₂ O ₅ | Per sample | Rp | 22.800,00 |
| (11) SO ₃ | Per sample | Rp | 17.100,00 |
| (12) BaO | Per sample | Rp | 22.800,00 |
| (13) Cr ₂ O ₃ | Per sample | Rp | 22.800,00 |
| (14) H ₂ O+ | Per sample | Rp | 14.200,00 |
| (15) H ₂ O- | Per sample | Rp | 5.900,00 |
| (16) HD | Per sample | Rp | 5.900,00 |
| (17) BV | Per sample | Rp | 14.200,00 |
| (18) BJ | Per sample | Rp | 5.900,00 |
| (19) pH | Per sample | Rp | 5.900,00 |
| (20) CO ₂ | Per sample | Rp | 40.000,00 |
| (21) Cl ₂ | Per sample | Rp | 22.800,00 |
| 4) Analisa Batubara | | | |
| a) Preparasi/Sampel Preparation | Per sample | Rp | 27.500,00 |
| b) Proksimat/Proximate Analysis | | | |
| (1) Air Lembab/Air Dried Moisture (ASTM D.3173/BS 1016 Part 3 '73) | Per sample | Rp | 50.000,00 |
| (2) Abu/Ash (ASTM D.3174/BS 1016 Part 3 '73) | Per sample | Rp | 10.000,00 |
| (3) Zat Terbang/Volatile Matter (ASTM D.3175/BS 1016 Part 373) | Per sample | Rp | 15.000,00 |
| (4) Carbon Padat / Fixed Carbon (Dengan Perhitungan/By Difference) | Per sample | Rp | 25.000,00 |
| c) Analisa Ultimat/Ultimate Analysis | | | |
| (1) Carbon Total/Total Carbon (ASTM D.3178) | Per sample | Rp | 280.000,00 |
| (2) Hydrogen Total/Total Hydrogen (ASTM D.3178) | Per sample | Rp | 70.000,00 |
| (3) Nitrogen/Nitrogen (BS 1016 Part 677) | Per sample | Rp | 70.000,00 |
| (4) Belerang Total/Sulfur Total (ASTM D.3177/BS 1016 Part 677) | Per sample | Rp | 70.000,00 |
| (5) Oksigen/Oxygen (Dengan Perhitungan/By Difference) | Per sample | Rp | 70.000,00 |
| d) Nilai Kalor / Calorific Value (ASTM D.3286 atau D.2015) | Per sample | Rp | 50.000,00 |
| e) Bentuk Belerang / Form of Sulfur | | | |
| (1) Belerang Sulfat / Sulphate Sulphur | Per sample | Rp | 120.000,00 |
| (2) Belerang Pirit / Pyritic Sulphur (ASTM D.2492/BS 1016 Part 11 '77) | Per sample | Rp | 50.000,00 |
| (3) Belerang Organik / Organic Sulphur (Dengan Perhitungan/By Difference) | Per sample | Rp | 70.000,00 |
| f) Klor / Chlorine (BS 1016 Part 8 '77) | Per sample | Rp | 75.000,00 |

| | | | | |
|----|---|---------------------|----|------------|
| g) | Carbon Dioksida/Carbon Dioxide (BS 1016 Part 677) | Per sample | Rp | 70.000,00 |
| h) | Sifat Ketergerusan/Hardgrove Grindability Index (ASTM D.409) | Per sample | Rp | 70.000,00 |
| i) | Nilai Muai Bebas/Free Swelling Index (ASTM D.720) | Per sample | Rp | 20.000,00 |
| j) | Berat Jenis sesungguhnya/True Specific Gravity | Per sample | Rp | 15.000,00 |
| k) | Relative Density | Per sample | Rp | 15.000,00 |
| l) | Bulk Density | Per sample | Rp | 20.000,00 |
| m) | pH | Per sample | Rp | 10.000,00 |
| 5) | Laboratorium Fisika Mineral & Petrografi Batubara | | | |
| a) | Preparasi Sample | | | |
| | (1) Sayatan Tipis | Per sample | Rp | 30.000,00 |
| | (2) Sayatan Poles | Per sample | Rp | 40.000,00 |
| | (3) Sayatan untuk Fluid Inclusion | Per sample | Rp | 40.000,00 |
| | (4) Pemolesan Batuan | Per cm ² | Rp | 1.000,00 |
| | (5) Preparasi Mineral Butir | Per sample | Rp | 30.000,00 |
| b) | Petrografi Buatan | | | |
| | (1) Identifikasi Mineral | Per sample | Rp | 100.000,00 |
| | (2) Deskripsi Petrografi | Per sample | Rp | 150.000,00 |
| | (3) Deskripsi Petrography dilengkapi dengan Interpretasi Mineral Ubahan | Per sample | Rp | 225.000,00 |
| c) | Petrografi Batubara | | | |
| | (1) Analisa Maseral | Per sample | Rp | 200.000,00 |
| | (2) Pengukuran Reflektan | Per sample | Rp | 100.000,00 |
| | (3) Analisa Titik Leleh Abu Batubara | Per sample | Rp | 200.000,00 |
| d) | Mineragrafi | | | |
| | (1) Identifikasi Mineral | Per sample | Rp | 100.000,00 |
| | (2) Deskripsi Petrografi Mineral Bijih dan Paragenesa Mineral Bijih | Per sample | Rp | 150.000,00 |
| | (3) Deskripsi Petrografi Mineral Bijih dengan Interpretasi Mineralisasi | Per sample | Rp | 225.000,00 |
| e) | Analisa Fluid Inclusion (Heating) | Per sample | Rp | 200.000,00 |
| f) | Analisa Fluid Inclusion (Heating + Freezing) | Per sample | Rp | 250.000,00 |
| g) | Pemeriksaan Konsentrat Dulang | Per sample | Rp | 100.000,00 |
| h) | Pemeriksaan Sebaran Butir | Per sample | Rp | 100.000,00 |
| i) | Pemeriksaan Sebaran Butir (Analisa Pasir Laut) | Per sample | Rp | 175.000,00 |
| j) | Uji Fisik Batuan | | | |
| | Kuat tekan & Berat Jenis | Per sample | Rp | 275.000,00 |
| k) | Fotomikrografi (Photomicrography) Termasuk film, cuci dan cetak | Per lembar | Rp | 10.000,00 |
| 5. | Jasa Sistem Komputerisasi, Informasi dan Publikasi | | | |
| a. | Peta Hardprint | | | |
| | 1) Peta Potensi Sumber Daya Mineral, ukuran A3 per Kabupaten | | | |
| | a) Mineral Logam | Per lembar | Rp | 70.000,00 |
| | b) Mineral Non-Logam | Per lembar | Rp | 70.000,00 |

| | | | | |
|----|---|------------|----|---------------|
| | c) Batubara | Per lembar | Rp | 70.000,00 |
| | 2) Peta Potensi Sumber Daya Mineral, ukuran A0 per Provinsi | | | |
| | a) Mineral Logam | Per lembar | Rp | 350.000,00 |
| | b) Mineral Non-Logam | Per lembar | Rp | 350.000,00 |
| | c) Batubara | Per lembar | Rp | 350.000,00 |
| b. | Peta Digital | | | |
| | 1) Peta Potensi Sumber Daya Mineral per Kabupaten | | | |
| | a) Mineral Logam | Per CD | Rp | 500.000,00 |
| | b) Mineral Non-Logam | Per CD | Rp | 500.000,00 |
| | c) Batubara | Per CD | Rp | 500.000,00 |
| | 2) Peta Potensi Sumber Daya Mineral per Provinsi | | | |
| | a) Mineral Logam | Per CD | Rp | 3.500.000,00 |
| | b) Mineral Non-Logam | Per CD | Rp | 3.500.000,00 |
| | c) Batubara | Per CD | Rp | 3.500.000,00 |
| | 3) Peta Potensi Sumber Daya Mineral Pulau Sumatera | | | |
| | a) Mineral Logam | Per CD | Rp | 12.000.000,00 |
| | b) Mineral Non-Logam | Per CD | Rp | 12.000.000,00 |
| | c) Batubara | Per CD | Rp | 12.000.000,00 |
| | 4) Peta Potensi Sumber Daya Mineral Pulau Jawa | | | |
| | a) Mineral Logam | Per CD | Rp | 10.000.000,00 |
| | b) Mineral Non-Logam | Per CD | Rp | 10.000.000,00 |
| | c) Batubara | Per CD | Rp | 10.000.000,00 |
| | 5) Peta Potensi Sumber Daya Mineral Pulau Kalimantan | | | |
| | a) Mineral Logam | Per CD | Rp | 12.000.000,00 |
| | b) Mineral Non-Logam | Per CD | Rp | 12.000.000,00 |
| | c) Batubara | Per CD | Rp | 12.000.000,00 |
| | 6) Peta Potensi Sumber Daya Mineral Pulau Sulawesi | | | |
| | a) Mineral Logam | Per CD | Rp | 12.000.000,00 |
| | b) Mineral Non-Logam | Per CD | Rp | 12.000.000,00 |
| | c) Batubara | Per CD | Rp | 12.000.000,00 |
| | 7) Peta Potensi Sumber Daya Mineral Pulau Irian | | | |
| | a) Mineral Logam | Per CD | Rp | 12.000.000,00 |
| | b) Mineral Non-Logam | Per CD | Rp | 12.000.000,00 |
| | c) Batubara | Per CD | Rp | 12.000.000,00 |
| | 8) Peta Geokimia Stream Sediman Pulau Sumatera | Per CD | Rp | 8.500.000,00 |
| | 9) Peta Geokimia Stream Sediman Pulau Sulawesi | Per CD | Rp | 8.000.000,00 |
| c. | Layanan Jasa Digitasi | | | |
| | 1) Digital peta line dan poligon layer/cm persegi | Per cm | Rp | 300,00 |
| | 2) Digital peta point setiap layer/point | Per titik | Rp | 100,00 |
| | 3) Pengisian Database/item record | Per record | Rp | 2.000,00 |
| 6. | Jasa Pemanfaatan Peralatan Teknik | | | |
| a. | Jasa Pemanfaatan Alat Berat | | | |
| | 1) Long Year 38 Truck Mounted (tanpa truck) + pompa | Per hari | Rp | 450.000,00 |

| | | | | |
|-----|--|------------------|----|---------------|
| 2) | Long Year 38 Skid Mounted + pompa | Per hari | Rp | 420.000,00 |
| 3) | Long Year 34 Truck Mounted (tanpa truck) + pompa | Per hari | Rp | 340.000,00 |
| 4) | Long Year 24 + pompa | Per hari | Rp | 250.000,00 |
| 5) | Tone THS 5 M Skid Mounted + pompa | Per hari | Rp | 320.000,00 |
| 6) | Tone TOP 150 + pompa | Per hari | Rp | 450.000,00 |
| 7) | Koken OE-8 + pompa | Per hari | Rp | 250.000,00 |
| 8) | Koken SD III-C + pompa | Per hari | Rp | 170.000,00 |
| 9) | Koken RK 3A Skid Mounted + pompa | Per hari | Rp | 350.000,00 |
| 10) | Pekerjaan Pemboran Panas Bumi & Mineral (Bor Dalam) Drilling Machine Tone (Spindle Type), 300 HP, Capacity 1000 meter HQ | Per hari | Rp | 10.000.000,00 |
| b. | Jasa Pemanfaatan Alat Ukur | | | |
| 1) | Total Station | Per hari | Rp | 165.000,00 |
| 2) | EDM | Per hari | Rp | 75.000,00 |
| 3) | Theodolite | Per hari | Rp | 20.000,00 |
| 4) | Water Pas | Per hari | Rp | 10.000,00 |
| 5) | GPS | Per hari | Rp | 30.000,00 |
| c. | Jasa Pemanfaatan Alat Geofisika | | | |
| 1) | CSAMT | Per unit / hari | Rp | 3.000.000,00 |
| 2) | Peralatan Survey Mineral (Alat IP Lengkap) | Per unit / hari | Rp | 1.200.000,00 |
| 3) | Gravity/Gaya Berat (Alat Gravimeter Lengkap) | Per unit / hari | Rp | 500.000,00 |
| 4) | Proton Magnetometer (Lengkap) | Per unit / hari | Rp | 400.000,00 |
| 5) | Geologer/Logging (Alat Geologer Oyo 3030 Lengkap) | Per unit / hari | Rp | 700.000,00 |
| d. | Jasa Pemanfaatan Alat Perbengkelan | | | |
| 1) | Mesin Bubut Besar Daya 20 KW | Per jam | Rp | 35.000,00 |
| 2) | Mesin Bubut Menengah Daya 5,5 KW | Per jam | Rp | 25.000,00 |
| 3) | Mesin Bubut Menengah Daya 5 KW | Per jam | Rp | 20.000,00 |
| 4) | Mesin Bubut Kecil Daya 0,75 KW | Per jam | Rp | 15.000,00 |
| 5) | Mesin Mailing Daya 7,5 KW | Per jam | Rp | 20.000,00 |
| 6) | Mesin Skrap Daya 3 KW | Per jam | Rp | 15.000,00 |
| 7) | Mesin Las TIG 180 Daya 3 KW | Per jam | Rp | 15.000,00 |
| 8) | Mesin Mig Daya 10 KW | Per jam | Rp | 17.500,00 |
| 9) | Mesin Las Miller Daya 14 KW | Per jam | Rp | 20.000,00 |
| 7. | Jasa Pelayanan Umum | | | |
| | Wisma Geologi | | | |
| 1) | Kamar Standar | | | |
| a) | Pegawai DESDM | Per hari / orang | Rp | 20.000,00 |
| b) | Non Pegawai DESDM | Per hari / orang | Rp | 30.000,00 |
| 2) | Kamar VIP II | | | |
| a) | Pegawai DESDM | Per hari / orang | Rp | 30.000,00 |
| b) | Non Pegawai DESDM | Per hari / orang | Rp | 40.000,00 |
| 3) | Kamar VIP I | | | |
| a) | Pegawai DESDM | Per hari / orang | Rp | 50.000,00 |
| b) | Non Pegawai DESDM | Per hari / orang | Rp | 60.000,00 |
| C. | Direktorat Tata Lingkungan Geologi dan Kawasan Pertambangan | | | |
| 1. | Jasa Teknologi/Konsultasi | | | |
| a. | Pemetaan dan Penyelidikan | | | |

| | | | |
|---|---------------------|----|----------------|
| 1) Penyelidikan dan Pemetaan Hidrogeologi 1: 100.000 | Per km ² | Rp | 50.000,00 |
| 2) Penyelidikan dan Pemetaan Hidrogeologi 1 : 50.000 | Per km ² | Rp | 150.000,00 |
| 3) Penyelidikan dan Pemetaan Hidrogeologi 1 : 25.000 | Per km ² | Rp | 500.000,00 |
| 4) Penyelidikan dan Pemetaan Geologi Teknik 1:100.000 | Per km ² | Rp | 50.000,00 |
| 5) Penyelidikan dan Pemetaan Geologi Teknik 1:50.000 | Per km ² | Rp | 150.000,00 |
| 6) Penyelidikan dan Pemetaan Geologi Teknik 1:25.000 | Per km ² | Rp | 500.000,00 |
| 7) Penyelidikan dan Pemetaan Geologi Lingkungan 1:100.000 | Per km ² | Rp | 50.000,00 |
| 8) Penyelidikan dan Pemetaan Geologi Lingkungan 1:50.000 | Per km ² | Rp | 150.000,00 |
| 9) Penyelidikan dan Pemetaan Geologi Lingkungan 1:25.000 | Per km ² | Rp | 300.000,00 |
| 10) Penyelidikan dan Pemetaan Geologi Kawasan Pertambangan 1:100.000 | Per km ² | Rp | 50.000,00 |
| 11) Penyelidikan dan Pemetaan Geologi Kawasan Pertambangan 1:50.000 | Per km ² | Rp | 150.000,00 |
| 12) Penyelidikan dan Pemetaan Geologi Kawasan Pertambangan 1:20.000 | Per km ² | Rp | 300.000,00 |
| b. Jasa Teknologi/Konsultasi | | | |
| 1) Jasa Teknologi penyadapan air tanah dangkal dan penurapan mata air | Per paket | Rp | 100.000.000,00 |
| 2) Jasa Teknologi rekayasa dan rancang bangun konservasi air bawah tanah | Per paket | Rp | 200.000.000,00 |
| 3) Jasa Teknologi pemantauan kualitas air tanah / air limbah | Per paket | Rp | 200.000.000,00 |
| 4) Jasa Teknologi pemboran air tanah | Per paket | Rp | 250.000.000,00 |
| 5) Jasa Teknologi pengujian dan analisis debit air tanah | Per paket | Rp | 100.000.000,00 |
| 6) Jasa Teknologi eksplorasi sumberdaya air bawah tanah & model potensi air bawah tanah | Per paket | Rp | 300.000.000,00 |
| 7) Jasa Teknologi pengujian sondir kapasitas 2,5 ton | Per titik | Rp | 300.000,00 |
| 8) Jasa Teknologi pengujian sondir kapasitas 5,0 ton | Per titik | Rp | 750.000,00 |
| 9) Jasa Teknologi pengujian sondir kapasitas 10,0 ton | Per titik | Rp | 1.500.000,00 |
| 10) Jasa Teknologi pengujian SPT, dan pengambilan sample tanah | Per uji | Rp | 75.000,00 |
| 11) Jasa Teknologi pemboran teknik dan pengujian langsung di lapangan | Per paket | Rp | 251.250,00 |
| 12) Jasa Teknologi peyelidikan geoteknik pengembangan wilayah Kabupaten/Kota skala 1 : 50.000 | Per paket | Rp | 550.000.000,00 |
| 13) Jasa Teknologi penyelidikan geoteknik tapak TPA industri | Per paket | Rp | 150.000.000,00 |
| 14) Jasa Teknologi penyelidikan geoteknik tapak TPA perkotaan | Per paket | Rp | 100.000.000,00 |
| 15) Jasa Teknologi penyelidikan | Per paket | Rp | 250.000.000,00 |

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| geoteknik tapak perumahan, kawasan industri dan perkantoran skala 1:20.000 | | | |
| 16) Jasa Teknologi dan Konsultasi konstruksi perkuatan lereng longsoran | Per paket | Rp | 150.000.000,00 |
| 17) Jasa Teknologi perekayasaan dan rancang bangun geologi teknik | Per paket | Rp | 500.000.000,00 |
| 18) Jasa Teknologi dan Kajian lingkungan tapak limbah perkotaan | Per paket | Rp | 150.000.000,00 |
| 19) Jasa Teknologi dan kajian lingkungan tapak limbah industri | Per paket | Rp | 250.000.000,00 |
| 20) Jasa Teknologi dan kajian lingkungan pertambangan dan sumberdaya alam | Per paket | Rp | 150.000.000,00 |
| 21) Jasa Teknologi dan kajian lingkungan pengembangan wilayah (tata ruang). | Per paket | Rp | 100.000.000,00 |
| 22) Jasa Teknologi dan Kajian lingkungan tapak limbah pertambangan (tailing). | Per paket | Rp | 150.000.000,00 |
| 23) Jasa Teknologi dan Kajian lingkungan tapak limbah pertambangan (penimbunan tanah penutup). | Per paket | Rp | 150.000.000,00 |
| 24) Jasa Teknologi dan Kajian lingkungan tapak pasca tambang | Per paket | Rp | 150.000.000,00 |
| 25) Jasa Teknologi dan Kajian Rehabilitasi / Reklamasi tapak pasca tambang | Per paket | Rp | 150.000.000,00 |
| 2. Jasa Perbantuan Tenaga Ahli/Teknisi | | | |
| a. Jasa Perbantuan Tenaga Ahli | | | |
| 1) Ahli Geologi Tata Lingkungan Senior | Per hari | Rp | 300.000,00 |
| 2) Ahli Geologi Tata Lingkungan Yuniior | Per hari | Rp | 200.000,00 |
| 3) Analis Laboratorium Senior | Per hari | Rp | 300.000,00 |
| 4) Analis Laboratorium Yuniior | Per hari | Rp | 200.000,00 |
| b. Jasa Perbantuan Tenaga Teknisi/Surveyor | | | |
| 1) Teknisi Juru Bor (Bor Master) Senior | Per hari | Rp | 175.000,00 |
| 2) Teknisi Juru Bor (Bor Master) Yuniior | Per hari | Rp | 150.000,00 |
| 3) Teknisi Juru Sondir Senior | Per hari | Rp | 175.000,00 |
| 4) Teknisi Juru Sondir Yuniior | Per hari | Rp | 150.000,00 |
| 5) Teknisi Juru Ukur (Surveyor) Senior | Per hari | Rp | 175.000,00 |
| 6) Teknisi Juru Ukur (Surveyor) Yuniior | Per hari | Rp | 150.000,00 |
| 7) Operator Truck Crane Senior | Per hari | Rp | 150.000,00 |
| 8) Operator Truck Crane Yuniior | Per hari | Rp | 130.000,00 |
| 9) Pengemudi Truck Mounted (SIM B2) Senior | Per hari | Rp | 130.000,00 |
| 10) Pengemudi Truck Mounted (SIM B2) Yuniior | Per hari | Rp | 110.000,00 |
| 11) Operator Geofisik Senior | Per hari | Rp | 150.000,00 |
| 12) Operator Geofisik Yuniior | Per hari | Rp | 130.000,00 |
| 13) Operator Komputer Senior | Per hari | Rp | 150.000,00 |
| 14) Operator Komputer Yuniior | Per hari | Rp | 130.000,00 |
| 15) Laboran Senior | Per hari | Rp | 150.000,00 |
| 16) Laboran Yuniior | Per hari | Rp | 130.000,00 |
| 3. Penyelidikan Jasa Geofisika | | | |
| a. Pendugaan Geolistrik Mapping | Per titik | Rp | 200.000,00 |
| b. Pendugaan Geolistrik Sounding | Per titik | Rp | 500.000,00 |
| c. Pengujian Logging Per Sumur Dalam (75 - | Per paket | Rp | 5.000.000,00 |

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| 150 m) | | | |
| d. Pengujian Logging Per Sumur Dalam (150 - 300 m) | Per paket | Rp | 20.000.000,00 |
| e. Pengujian Borehole Camera | Per paket | Rp | 6.000.000,00 |
| 4. Jasa Analisis Laboratorium | | | |
| a. Air minum/air bersih/badan air : fisika-kimia, terdiri dari unsur : | | | |
| 1) Keekeruhan | Per uji | Rp | 5.000,00 |
| 2) Warna | Per uji | Rp | 5.000,00 |
| 3) Bau | Per uji | Rp | 2.500,00 |
| 4) Rasa | Per uji | Rp | 2.500,00 |
| 5) Daya Hantar Listrik | Per uji | Rp | 5.000,00 |
| 6) pH | Per uji | Rp | 5.000,00 |
| 7) Kesadahan | Per uji | Rp | 7.500,00 |
| 8) Kalsium (Ca+2) | Per uji | Rp | 7.500,00 |
| 9) Magnesium (Mg+2) | Per uji | Rp | 5.000,00 |
| 10) Besi (Fe+3) | Per uji | Rp | 15.000,00 |
| 11) Mangan (Mn+2) | Per uji | Rp | 15.000,00 |
| 12) Kalium (K+) | Per uji | Rp | 5.000,00 |
| 13) Natrium (Na+) | Per uji | Rp | 5.000,00 |
| 14) Litium (Li+) | Per uji | Rp | 5.000,00 |
| 15) Karbonat (CO3-2) | Per uji | Rp | 7.500,00 |
| 16) Bikarbonat (HCO3-) | Per uji | Rp | 7.500,00 |
| 17) Karbon dioksida (CO2) | Per uji | Rp | 7.500,00 |
| 18) Klorida (Cl-) | Per uji | Rp | 20.000,00 |
| 19) Sulfat (SO4-2) | Per uji | Rp | 7.500,00 |
| 20) Nitrogen-Nitrit (N-NO2-) | Per uji | Rp | 7.500,00 |
| 21) Nitrogen-Nitrat (N-NO3-) | Per uji | Rp | 20.000,00 |
| 22) Silika (SiO2) | Per uji | Rp | 17.500,00 |
| 23) Zat organik | Per uji | Rp | 10.000,00 |
| 24) Zat padat terlarut (TDS) | Per uji | Rp | 5.000,00 |
| b. Bakteri Coli | Per uji | Rp | 100.000,00 |
| c. Plankton | Per uji | Rp | 25.000,00 |
| d. Logam berat dalam air : | | | |
| 1) Tembaga (Cu) | Per uji | Rp | 15.000,00 |
| 2) Timbal (Pb) | Per uji | Rp | 15.000,00 |
| 3) Seng (Zn) | Per uji | Rp | 15.000,00 |
| 4) Krom (Cr) | Per uji | Rp | 15.000,00 |
| 5) Kobalt (Co) | Per uji | Rp | 15.000,00 |
| 6) Nikel (Ni) | Per uji | Rp | 15.000,00 |
| 7) Alumunium (Al) | Per uji | Rp | 15.000,00 |
| 8) Selenium (Se) | Per uji | Rp | 30.000,00 |
| 9) Raksa (Hg) | Per uji | Rp | 50.000,00 |
| 10) Arsen (As) | Per uji | Rp | 40.000,00 |
| e. Logam berat dalam lumpur : | | | |
| 1) Tembaga (Cu) | Per uji | Rp | 20.000,00 |
| 2) Timbal (Pb) | Per uji | Rp | 20.000,00 |
| 3) Seng (Zn) | Per uji | Rp | 20.000,00 |
| 4) Krom (Cr) | Per uji | Rp | 20.000,00 |
| 5) Kobalt (Co) | Per uji | Rp | 20.000,00 |
| 6) Nikel (Ni) | Per uji | Rp | 20.000,00 |
| 7) Alumunium (Al) | Per uji | Rp | 20.000,00 |
| 8) Selenium (Se) | Per uji | Rp | 35.000,00 |
| 9) Raksa (Hg) | Per uji | Rp | 55.000,00 |
| 10) Arsen (As) | Per uji | Rp | 45.000,00 |

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| f. | Limbah : | | | |
| | 1) Kebutuhan Oksigen Biologi/KOB/BOD | Per uji | Rp | 25.000,00 |
| | 2) Kebutuhan Oksigen Kimia/KOK/COD | Per uji | Rp | 50.000,00 |
| | 3) Senyawa organik halogen (AOX-air) | Per uji | Rp | 250.000,00 |
| | 4) Senyawa organik halogen (AOX-lumpur) | Per uji | Rp | 300.000,00 |
| | 5) Phenol | Per uji | Rp | 25.000,00 |
| | 6) Fluor | Per uji | Rp | 15.000,00 |
| | 7) Boron | Per uji | Rp | 15.000,00 |
| g. | Mekanika Tanah : | | | |
| | 1) Kadar air (water content) | Per uji | Rp | 10.000,00 |
| | 2) Berat jenis (specific gravity) | Per uji | Rp | 10.000,00 |
| | 3) Berat isi asli/kering/jenuh (unit weight) | Per uji | Rp | 10.000,00 |
| | 4) Porositas, angka pori, derajat kejenuhan | Per uji | Rp | 10.000,00 |
| | 5) Atterberg limits | Per uji | Rp | 30.000,00 |
| | 6) Shrinkage limit | Per uji | Rp | 30.000,00 |
| | 7) Analisa besar butir | Per uji | Rp | 40.000,00 |
| | 8) Permeability | Per uji | Rp | 30.000,00 |
| | 9) Kuat tekan (uniaxial test) | Per uji | Rp | 40.000,00 |
| | 10) Direct Sear Test | Per uji | Rp | 75.000,00 |
| | 11) Triaxial Test (UU) | Per uji | Rp | 75.000,00 |
| | 12) Triaxial Test (CU) | Per uji | Rp | 150.000,00 |
| | 13) Konsolidasi | Per uji | Rp | 200.000,00 |
| | 14) Kompaksi standard | Per uji | Rp | 100.000,00 |
| | 15) Kompaksi modified | Per uji | Rp | 125.000,00 |
| | 16) CBR : Direct | Per uji | Rp | 50.000,00 |
| | 17) CBR : Unsoaked | Per uji | Rp | 125.000,00 |
| | 18) CBR : Soaked | Per uji | Rp | 175.000,00 |
| h. | Mekanika Batuan | | | |
| | 1) Schmidt Hammer Hardnest Test | Per uji | Rp | 20.000,00 |
| | 2) Point Load Test | Per uji | Rp | 50.000,00 |
| | 3) Basic Physical Properties | Per uji | Rp | 60.000,00 |
| | 4) Ultrasonic Velocity Test | Per uji | Rp | 60.000,00 |
| | 5) Rock Triaxial Compressive Test | Per uji | Rp | 100.000,00 |
| | 6) Slake Durability Test | Per uji | Rp | 80.000,00 |
| | 7) Los Angeles Abrassion Test | Per uji | Rp | 80.000,00 |
| | 8) Soundness Test | Per uji | Rp | 80.000,00 |
| | 9) Permeability Test | Per uji | Rp | 60.000,00 |
| | 10) Direct Shear Test | Per uji | Rp | 80.000,00 |
| | 11) Brazilian Test / Tensile Strength | Per uji | Rp | 60.000,00 |
| | 12) Unconfined Compressive Strength(Rock/Concrete Compression Test) | Per uji | Rp | 60.000,00 |
| 5. | Jasa Sistem Komputerisasi, Informasi dan Publikasi | | | |
| a. | Jasa Pengolahan | | | |
| | 1) Jasa pengolahan data informasi untuk | Per paket | Rp | 20.000.000,00 |

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| | pengembangan potensi air tanah | | | |
| 2) | Jasa pengolahan data informasi untuk penyelidikan geologi teknik | Per paket | Rp | 20.000.000,00 |
| 3) | Jasa pengolahan data informasi untuk penyelidikan bencana geologi | Per paket | Rp | 10.000.000,00 |
| 4) | Jasa pengolahan data informasi untuk pengembangan wilayah perkotaan/daerah | Per paket | Rp | 10.000.000,00 |
| 5) | Jasa pengolahan data informasi untuk pengembangan wilayah pertambangan | Per paket | Rp | 10.000.000,00 |
| 6) | Jasa pengolahan citra satelit (<i>image processing</i>) untuk pemantauan daerah pertambangan, migas, serta pengembangan wilayah | Per paket | Rp | 10.000.000,00 |
| b. | Jasa Peta Digitasi | | | |
| 1) | Peta Hidrogeologi satu Kabupaten | Per lembar | Rp | 500.000,00 |
| 2) | Peta Geologi Teknik satu Kabupaten | Per lembar | Rp | 500.000,00 |
| 3) | Peta Geologi Lingkungan | Per lembar | Rp | 500.000,00 |
| 4) | Peta Lingkungan Pertambangan | Per lembar | Rp | 500.000,00 |
| c. | Jasa Layanan Digitasi | | | |
| 1) | Digitasi peta line dan poligon setiap layer/cm persegi | Per cm ² | Rp | 300,00 |
| 2) | Digitasi peta point setiap layer/point | Per titik | Rp | 100,00 |
| 3) | Pengisian Data Base item record | Per record | Rp | 2.000,00 |
| 6. | Jasa Pemanfaatan Peralatan Teknik | | | |
| a. | Alat Berat | | | |
| 1) | Mesin Bor Teknik Kecil kurang dari 60 meter | Per hari | Rp | 170.000,00 |
| 2) | Mesin Bor Teknik Besar lebih dari 60 meter | Per hari | Rp | 250.000,00 |
| 3) | Mesin Bor Air Skidmounted kurang dari 150 m | Per hari | Rp | 350.000,00 |
| 4) | Mesin Bor Air Truckmounted lebih dari 150 m | Per hari | Rp | 1.700.000,00 |
| 5) | Crane Truck | Per hari | Rp | 1.000.000,00 |
| 6) | Forkliff | Per hari | Rp | 30.000,00 |
| 7) | Sondir Kapasitas 2,5 ton | Per hari | Rp | 30.000,00 |
| 8) | Sondir Kapasitas 5,0 ton | Per hari | Rp | 150.000,00 |
| 9) | Sondir Kapasitas 10 ton | Per hari | Rp | 200.000,00 |
| 10) | Compresor Kecil | Per hari | Rp | 400.000,00 |
| 11) | Compresor Besar | Per hari | Rp | 750.000,00 |
| b. | Alat survai | | | |
| 1) | Alat Ukur Total Station | Per hari | Rp | 150.000,00 |
| 2) | Alat Ukur EDM | Per hari | Rp | 100.000,00 |
| 3) | Alat Ukur Theodolite (To) | Per hari | Rp | 50.000,00 |
| 4) | GPS (Hand Held) | Per hari | Rp | 10.000,00 |
| c. | Alat Geofisika | | | |
| 1) | Bore Hole Camera | Per hari | Rp | 5.000.000,00 |
| 2) | Well Logging | Per hari | Rp | 1.500.000,00 |
| 3) | Geoseismik | Per hari | Rp | 4.000.000,00 |
| 4) | Geolistrik | Per hari | Rp | 200.000,00 |

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| 7. | Jasa Pelayanan Umum | | | |
| a. | Pemakaian Gudang/Ruangan | | | |
| 1) | Gudang / Ruang Jalan Jakarta - Bandung | Per gudang/bulan | Rp | 10.000.000,00 |
| 2) | Gudang Jalan Cimindi - Bandung | Per gudang/bulan | Rp | 10.000.000,00 |
| 3) | Ruangan Kantor Jalan Cimindi - Bandung | Per kantor/bulan | Rp | 5.000.000,00 |
| 4) | Gudang Jalan Tongkol - Jakarta | Per gudang/bulan | Rp | 15.000.000,00 |
| b. | Pelayanan Alat Perbengkelan Geologi | | | |
| 1) | Mesin Bubut CNC Okuma besar > 6 meter | Per alat/Jam | Rp | 100.000,00 |
| 2) | Mesin Milling CNC Okuma besar > 6 meter | Per alat/Jam | Rp | 100.000,00 |
| 3) | Mesin Bubut Besar pipa > 6 meter | Per alat/Jam | Rp | 50.000,00 |
| 4) | Mesin Skrap | Per alat/Jam | Rp | 15.000,00 |
| 5) | Mesin Las | Per alat/Jam | Rp | 15.000,00 |
| D. | Direktorat Vulkanologi dan Mitigasi Bencana Geologi | | | |
| 1. | Jasa Teknologi Vulkanologi dan Mitigasi Bencana Geologi | | | |
| a. | Jasa Teknologi KeGunung apian | | | |
| 1) | Penyelidikan dan Pemetaan Geologi Gunung api skala 1:50.000 | Per km | Rp | 120.000,00 |
| 2) | Penyelidikan dan Pemetaan Potensi Bahaya Gunung api skala 1:50.000 | Per km | Rp | 85.000,00 |
| 3) | Penyelidikan Potensi Wisata Gunung api skala 1:50.000 | Per km | Rp | 70.000,00 |
| 4) | Penyelidikan Deformasi Metoda Levelling skala 1:25.000 | Per titik | Rp | 1.135.000,00 |
| 5) | Penyelidikan Deformasi Metoda Electronic Distance Measurements (EDM) skala 1:25.000 | Per titik | Rp | 1.125.000,00 |
| 6) | Penyelidikan Deformasi Metoda Global Positioning System (GPS) skala 1:50.000 | Per titik | Rp | 2.945.000,00 |
| 7) | Penyelidikan Kebumihan Metoda Potensial Diri (Self Potensial) skala 1:50.000 | Per titik | Rp | 135.000,00 |
| 8) | Penyelidikan Geolistrik skala 1:25.000 | Per km lintasan | Rp | 50.000.000,00 |
| 9) | Penyelidikan Seismik Refleksi skala 1:25.000 | Per km Lintasan | Rp | 15.000.000,00 |
| b. | Jasa Teknologi Gerakan Tanah dan Kegempaan | | | |
| 1) | Penyelidikan dan Pemetaan Kerentanan Gerakan Tanah skala 1:100.000 | Per km ² | Rp | 70.000,00 |
| 2) | Penyelidikan Mikroseismik skala 1:50.000 | Per titik | Rp | 290.000,00 |
| 3) | Penyelidikan Sesar Aktif skala | Per hari | Rp | 750.000,00 |

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| | 1:250.000 | | | |
| 4) | Penyelidikan Mikrozonasi skala 1:25.000 | Per km ² | Rp | 88.000.000,00 |
| 5) | Penyelidikan Geolistrik skala 1:50.000 | Per km ² | Rp | 42.000.000,00 |
| 6) | Penyelidikan Mikrogravity skala 1:50.000 | Per titik | Rp | 205.000,00 |
| 2. | Jasa Perbantuan Tenaga Ahli/Teknisi/Surveyor | | | |
| 1) | Ahli Vulkanologi Senior | Per hari | Rp | 300.000,00 |
| 2) | Ahli Vulkanologi Yuniior | Per hari | Rp | 200.000,00 |
| 3) | Ahli Geofisika Senior | Per hari | Rp | 300.000,00 |
| 4) | Ahli Geofisika Yuniior | Per hari | Rp | 200.000,00 |
| 5) | Ahli Geodesi Senior | Per hari | Rp | 300.000,00 |
| 6) | Ahli Geodesi Yuniior | Per hari | Rp | 200.000,00 |
| 7) | Analisis Laboratorium Senior | Per hari | Rp | 300.000,00 |
| 8) | Analisis Laboratorium Yuniior | Per hari | Rp | 200.000,00 |
| 9) | Teknisi Juru Bor (Bor Master) Senior | Per hari | Rp | 175.000,00 |
| 10) | Teknisi Juru Bor (Bor Master) Yuniior | Per hari | Rp | 150.000,00 |
| 11) | Teknisi Juru Ukur (Surveyor) Senior | Per hari | Rp | 175.000,00 |
| 12) | Teknisi Juru Ukur (Surveyor) Yuniior | Per hari | Rp | 150.000,00 |
| 13) | Operator Geofisik Senior | Per hari | Rp | 150.000,00 |
| 14) | Operator Geofisik Yuniior | Per hari | Rp | 130.000,00 |
| 15) | Operator Komputer Senior | Per hari | Rp | 150.000,00 |
| 16) | Operator Komputer Yuniior | Per hari | Rp | 130.000,00 |
| 3. | Jasa Analisis Laboratorium Analisis gas | Per sample | Rp | 675.000,00 |
| 4. | Jasa Sistem Komputerisasi, Informasi dan Publikasi | | | |
| a. | Jasa Pengolahan | | | |
| 1) | Jasa Pengolahan Data Informasi untuk Bencana Tanah Longsor | Per paket | Rp | 20.000.000,00 |
| 2) | Jasa Pengolahan Data Informasi untuk Bencana Gempa Bumi | Per paket | Rp | 20.000.000,00 |
| 3) | Jasa Pengolahan Data Informasi untuk Bencana Letusan Gunung api | Per paket | Rp | 20.000.000,00 |
| 4) | Jasa Pengolahan Data Informasi untuk Rencana Umum Tata Ruang dan Wilayah | Per paket | Rp | 10.000.000,00 |
| b. | Jasa Peta Digitasi | | | |
| 1) | Peta Geologi Gunung api | Per lembar | Rp | 20.000.000,00 |
| 2) | Peta Kawasan Rawan Bencana Gunung api | Per lembar | Rp | 20.000.000,00 |
| 3) | Peta Kerentanan Gerakan Tanah | Per lembar | Rp | 20.000.000,00 |
| 5. | Jasa Pemanfaatan Peralatan Teknik | | | |
| | Peralatan Teknik : | | | |
| 1) | Mikro Gravity | Per hari | Rp | 500.000,00 |
| 2) | Geolistrik | Per hari | Rp | 200.000,00 |

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| 3) Alat Ukur Total Station | Per hari | Rp | 150.000,00 |
| 4) Alat Ukur EDM | Per hari | Rp | 100.000,00 |
| 5) Alat Ukur Theodolit | Per hari | Rp | 50.000,00 |
| 6) Waterpass | Per hari | Rp | 10.000,00 |
| 7) GPS Tangan | Per hari | Rp | 10.000,00 |
| 6. Jasa Pelayanan Umum | | | |
| Jasa Pemanfaatan Auditorium | | | |
| 1) Auditorium Lantai Atas | | | |
| a) Seminar : | | | |
| (1) Lingkungan DESDM | Per hari | Rp | 750.000,00 |
| (2) Umum | Per hari | Rp | 1.500.000,00 |
| b) Resepsi : | | | |
| (1) Karyawan dan Pensiunan | Per hari | Rp | 3.500.000,00 |
| (2) Umum | Per hari | Rp | 5.000.000,00 |
| 2) Auditorium Lantai Bawah | | | |
| a) Seminar : | | | |
| (1) Lingkungan DESDM | Per hari | Rp | 500.000,00 |
| (2) Umum | Per hari | Rp | 1.000.000,00 |
| b) Resepsi : | | | |
| (1) Karyawan dan Pensiunan | Per hari | Rp | 2.250.000,00 |
| (2) Umum | Per hari | Rp | 3.500.000,00 |

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| II. DIREKTORAT JENDERAL MINYAK DAN GAS BUMI | | | |
| Penerimaan Dari Pelayanan Jasa Bidang Minyak Dan Gas Bumi (Migas) | | | |
| Jasa informasi potensi wilayah kerja Migas | <i>Per paket</i> | US\$ | 5,000.00 |
| III. BADAN PENELITIAN DAN PENGEMBANGAN ENERGI DAN SUMBER DAYA MINERAL | | | |
| A. Pusat Penelitian Dan Pengembangan Teknologi Minyak dan Gas Bumi LEMIGAS | | | |
| 1. EKSPLORASI | | | |
| a. Biostratigrafi | | | |
| 1) Preparasi Sampel | | | |

| | | | | |
|----|--|------------------|------|--------|
| a) | Splitting of unwashed samples | | US\$ | 2.00 |
| | | <i>Per split</i> | | |
| b) | Washing of unoily samples | Per sample | US\$ | 5.00 |
| c) | Washing of oily samples | Per sample | US\$ | 7.50 |
| d) | Picking | Per sample | US\$ | 12.50 |
| e) | Nannoplankton | Per sample | US\$ | 10.00 |
| f) | Palynology | Per sample | US\$ | 30.00 |
| g) | Micropaleontology (Foraminiferal analysis) | | US\$ | 3.00 |
| | | <i>Per feet</i> | | |
| h) | Micropaleontology (Foraminiferal analysis) | | US\$ | 10.00 |
| | | <i>Per meter</i> | | |
| i) | Calcareous Nannoplankton | | US\$ | 4.00 |
| | | <i>Per feet</i> | | |
| j) | Calcareous Nannoplankton | | US\$ | 14.00 |
| | | <i>Per meter</i> | | |
| k) | Palynology (samples analysed every 90 ft or 30 m) | | US\$ | 5.00 |
| | | <i>Per feet</i> | | |
| l) | Palynology (samples analysed every 90 ft or 30 m) | | US\$ | 17.50 |
| | | <i>Per meter</i> | | |
| m) | Combined foraminiferal and nannoplankton Analyses | | US\$ | 6.50 |
| | | <i>Per feet</i> | | |
| n) | Combined foraminiferal and nannoplankton Analyses | | US\$ | 21.00 |
| | | <i>Per meter</i> | | |
| o) | Combined foraminiferal and palynological Analyses | | US\$ | 7.50 |
| | | <i>Per feet</i> | | |
| p) | Combined foraminiferal and palynological Analyses | | US\$ | 24.00 |
| | | <i>Per meter</i> | | |
| q) | Comprehensive biostratigraphic analysis (including Foraminiferal, nannoplankton and palynological studies Required for optimal biostratigraphic control) | | US\$ | 10.00 |
| | | <i>Per feet</i> | | |
| r) | Comprehensive biostratigraphic analysis (including Foraminiferal, nannoplankton and palynological studies Required for optimal biostratigraphic control) | Per meter | US\$ | 32.00 |
| 2) | Sampel Spot (Sampel Singkapan Sampel Sumur Terpilih) | | | |
| a) | Micropaleontology (Foraminifera) | Per sample | US\$ | 50.00 |
| b) | Larger Foraminifera | Per sample | US\$ | 55.00 |
| c) | Calcareous Nannoplankton | Per sample | US\$ | 60.00 |
| d) | Palynology (Qualitative assesment) | Per sample | US\$ | 160.00 |
| e) | Palynology (Quantitative assesment) | Per sample | US\$ | 225.00 |

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|----|---|-----------------|------|--------|
| 3) | Analisis Data Dasar Absolut Sr | | | |
| a) | Fast turn around: 4 weeks | Per sample | US\$ | 560.00 |
| b) | 6 weeks turn around | Per sample | US\$ | 350.00 |
| b. | Petroleum Geochemistry Initial Sample Preparation | | | |
| 1) | Additional Paper Copies (Each analysis price includes three paper copies) | <i>Per Copy</i> | US\$ | 250.00 |
| 2) | Additional Digital Copy on CD-ROM or Floppy Disk (in PDF format) | Per sample | US\$ | 250.00 |
| 3) | Geokimia LEMIGAS | | | |
| a) | Geochemist | Per hari | US\$ | 500.00 |
| b) | Technician | Per hari | US\$ | 200.00 |
| 4) | Geokimia Tenaga Asing Expatriate Geochemist | Per hari | US\$ | 900.00 |
| c. | Evaluasi Source Rock | | | |
| 1) | Preparasi Sample Source Rock | | | |
| a) | Registration of Samples | Per sample | US\$ | 2.00 |
| b) | Washing of Samples | Per sample | US\$ | 3.00 |
| c) | Washing of Samples, where organic mud additives have been used | Per sample | US\$ | 50.00 |
| d) | Washing of Samples with OBM | Per sample | US\$ | 30.00 |
| e) | Lithology Description | Per sample | US\$ | 5.00 |
| f) | Hand-picking of Separate Lithologies for Screening Analysis (1-2 mm cuttings) | Per sample | US\$ | 5.00 |
| g) | Surcharge for Picking Lithologies from cuttings <1 mm | Per sample | US\$ | 5.00 |
| h) | Hand-picking of cuttings for Iatroscan Analysis | Per sample | US\$ | 8.00 |
| i) | Hand-picking of cuttings for Extraction | Per sample | US\$ | 8.00 |
| j) | Isolation of Kerogen from Source Rock Samples | Per sample | US\$ | 35.00 |
| k) | Preparation of slides/mounting for Vitrinite Reflectance Measurements | Per sample | US\$ | 25.00 |
| 2) | <i>Analisa Screening Source Rock</i> | | | |
| | | Per sample | US\$ | 35.00 |
| a) | <i>Hydrocarbon in Headspace Gas</i> | | | |
| b) | Hydrocarbon in cutting gas (Occluded Gas) | Per sample | US\$ | 48.00 |
| c) | Total Organic Carbon (TOC) (using LECO) | Per sample | US\$ | 20.00 |
| d) | Total Carbon Content (TC) (using LECO) | Per sample | US\$ | 15.00 |

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|----|---|------------|------|--------|
| e) | Carbonate Content (Calculated from TOC and TC) | Per sample | US\$ | 35.00 |
| f) | Sulphur Content (using LECO) | Per sample | US\$ | 45.00 |
| g) | Rock-Eval | Per sample | US\$ | 50.00 |
| 3) | Analisa Follow-Up Source Rock | | | |
| a) | Detailed C ₄ -C ₇ Hydrocarbon Determination | Per sample | US\$ | 100.00 |
| b) | Thermal Extraction GC (by GHM) | Per sample | US\$ | 125.00 |
| c) | Pyrolysis GC (by GHM) | Per sample | US\$ | 125.00 |
| d) | Combination of R.GC-302 and R.GC-303 (by GHM) | Per sample | US\$ | 200.00 |
| e) | Extraction of Organic Matter by Soxhlet | Per sample | US\$ | 40.00 |
| f) | Separation of asphaltenes from the extract | Per sample | US\$ | 35.00 |
| g) | Separation of EOM by Column Chromatography | Per sample | US\$ | 30.00 |
| h) | Iatroscan analysis | Per sample | US\$ | 50.00 |
| i) | Capillary GC of Saturated Hydrocarbon Fraction | Per sample | US\$ | 85.00 |
| j) | Capillary GC of Aromatic Hydrocarbon Fraction (FID only) | Per sample | US\$ | 85.00 |
| k) | Kerogen Typing by Microscopy (Including kerogen isolation) | Per sample | US\$ | 50.00 |
| l) | <i>Kerogen maturation by Spore Coloration (TAI/SCI) Includes R.GC-311</i> | Per sample | US\$ | 60.00 |
| m) | Vitrinite Reflectance on whole rock | Per sample | US\$ | 60.00 |
| n) | Vitrinite Reflectance on kerogen concentrates | Per sample | US\$ | 75.00 |
| o) | Biomarker Analysis by GC-MS on Saturated Fraction (SIM) | Per sample | US\$ | 285.00 |
| p) | Biomarker Analysis by GC-MS on Aromatic Fraction (SIM) | Per sample | US\$ | 285.00 |
| q) | Biomarker Analysis by GC-MS of EOM (SIM) | Per sample | US\$ | 445.00 |
| r) | Biomarker Analysis by Metastable Reaction Monitoring (MRM) GC-MS | Per sample | US\$ | 650.00 |
| s) | Full Scan GC-MS Analysis (Excluding Interpretation) | Per sample | US\$ | 400.00 |
| t) | Carbon Isotope Analysis of individual EOM and kerogen (per fraction) | Per sample | US\$ | 90.00 |
| u) | GC-IRMS Analysis of EOM, Saturated or Aromatic Fractions (per fraction) | Per sample | US\$ | 650.00 |

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|----|---|------------|------|--------|
| 4) | Fluorescence Alteration of Multiple Macerals (FAMM) Analyses | | | |
| a) | Basic FAMM Analysis | Per sample | US\$ | 600.00 |
| b) | Vitrinite Reflectance (VR) and Maceral Analyses | Per sample | US\$ | 235.00 |
| d. | Oil and Gas Evaluation | | | |
| 1) | Analisa Gas | | | |
| a) | GC Analysis of Hydrocarbons in Gas Sample | Per sample | US\$ | 45.00 |
| b) | GC Analysis of Hydrocarbons and Inorganic Gases in Gas Sample | Per sample | US\$ | 120.00 |
| c) | Carbon Isotope in Methane | Per sample | US\$ | 180.00 |
| d) | Measurements of Carbon Isotope Composition of C ₁ -C ₄ by GC-IRMS | Per sample | US\$ | 250.00 |
| e) | Measurements of Carbon Isotope Composition of C ₁ -C ₄ and CO ₂ by GC-IRMS | Per sample | US\$ | 275.00 |
| 2) | Analisa Minyak | | | |
| a) | Whole Oil GC Analysis | Per sample | US\$ | 110.00 |
| b) | Quantitative Whole Oil Analysis | Per sample | US\$ | 150.00 |
| c) | Analysis of Whole Oil samples by GC-MS (SIM) | Per sample | US\$ | 445.00 |
| d) | Comparison of samples by Star Diagram method | Per sample | US\$ | 45.00 |
| e) | Topping of oil | Per sample | US\$ | 32.00 |
| f) | Removal of Asphaltenes | Per sample | US\$ | 35.00 |
| g) | Iatroscan Analysis | Per sample | US\$ | 50.00 |
| h) | Analysis of Saturated Fraction by Capillary GC | Per sample | US\$ | 85.00 |
| i) | Capillary GC of Aromatic Hydrocarbon Fraction (FID only) | Per sample | US\$ | 85.00 |
| j) | Biomarker Analysis by GC-MS of Saturated Fraction (SIM) | Per sample | US\$ | 285.00 |
| k) | Biomarker Analysis by GC-MS of Aromatic Fraction | Per sample | US\$ | 285.00 |
| l) | Carbon Isotope Analysis of Whole oil, Topped oil or Chromatographic Fractions (Per Fraction) | Per sample | US\$ | 90.00 |
| m) | Determination of stable isotope composition of individual components in Oils by GC-IRMS | Per sample | US\$ | 750.00 |
| n) | Gravity (API) | Per sample | US\$ | 30.00 |
| o) | Pour point above | Per sample | US\$ | 73.00 |

| | | | | |
|----|---|------------|------|--------|
| | p) Pour point below | Per sample | US\$ | 96.00 |
| | q) Sulphur Content (XRF) | Per sample | US\$ | 150.00 |
| | r) Nickel and Vanadium Content | Per sample | US\$ | 135.00 |
| | s) Per unsurtal and Nitrogen in oils | Per sample | US\$ | 150.00 |
| | t) Nitrogen compounds in oil | Per sample | US\$ | 150.00 |
| e. | Interpretasi Dan Laporan Utama Pada Analisa Rutinitas | | | |
| | 1) Data report, hardcopy (three copies) and a disc | Per paket | US\$ | 25.00 |
| | 2) Full interpretation with three copies of the report | Per paket | US\$ | 300.00 |
| | 3) Analisa : | | | |
| | a) Rock-Eval | Per sample | US\$ | 50.00 |
| | b) Correlation of Oil Samples based on Whole Oil GC Analysis | Per sample | US\$ | 120.00 |
| | c) Kerogen Typing by Microscopy (Including kerogen isolation) | Per sample | US\$ | 50.00 |
| | d) Vitrinite Reflectance | Per sample | US\$ | 75.00 |
| | e) FAMM Analysis (see R.GC-321 for the detail) | Per sample | US\$ | 600.00 |
| f. | Studi Korelasi | | | |
| | 1) Oil-Oil Correlation | | | |
| | a) Whole Oil GC Analysis | Per sample | US\$ | 110.00 |
| | b) Correlation of Oil Samples based on Whole Oil GC Analysis | Per sample | US\$ | 45.00 |
| | c) Analysis of Whole Oil samples by GC-MS (SIM) | Per sample | US\$ | 445.00 |
| | d) Topping of oil | Per sample | US\$ | 32.00 |
| | e) Removal of Asphalthenes | Per sample | US\$ | 35.00 |
| | f) Analysis of Saturated Fraction by Capillary GC | Per sample | US\$ | 85.00 |
| | g) Analysis of Aromatic Fraction by Capillary GC | Per sample | US\$ | 85.00 |
| | h) Biomarker Analysis by GC-MS of Saturated Fraction (SIM) | Per sample | US\$ | 285.00 |
| | i) Biomarker Analysis by GC-MS of Aromatic Fraction | Per sample | US\$ | 285.00 |
| | j) Determination of stable isotope composition of individual components in Whole Oil by GC-IRMS | Per sample | US\$ | 750.00 |
| | k) Pyrolysis of Asphalthenes by GHM | Per sample | US\$ | 130.00 |
| | 2) Oil Source Rock Correlation | | | |
| | a) Thermal Extraction GC by GHM | Per sample | US\$ | 125.00 |

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|----|--|------------|------|--------|
| b) | Extraction of Organic Matter by Soxhlet | Per sample | US\$ | 50.00 |
| c) | Separation of Asphaltenes from the extract | Per sample | US\$ | 40.00 |
| d) | Separation of EOM by Column Chromatography | Per sample | US\$ | 50.00 |
| e) | Separation of EOM (includes R.GC-803 and R.GC-804) | Per sample | US\$ | 75.00 |
| f) | Analysis of Saturated Fraction by Capillary GC | Per sample | US\$ | 95.00 |
| g) | Capillary GC of Aromatic Hydrocarbon Fraction (FID only) | Per sample | US\$ | 95.00 |
| h) | Biomarker Analysis by GC-MS of Saturated Fraction (SIM) | Per sample | US\$ | 300.00 |
| i) | Biomarker Analysis by GC-MS of Aromatic Fraction | Per sample | US\$ | 300.00 |
| j) | Carbon Isotope of bulk fractions (Per fraction) | Per sample | US\$ | 90.00 |
| g. | Klasifikasi Generik Minyak | | | |
| | Oil Family | | | |
| a) | Whole Oil GC Analysis | Per sample | US\$ | 110.00 |
| b) | Quantitative C ₆ C ₇ Analysis with Calculation of Comparison of samples by Star Diagram method | Per sample | US\$ | 195.00 |
| c) | Topping of oil | Per sample | US\$ | 32.00 |
| d) | Removal of Asphaltenes | Per sample | US\$ | 35.00 |
| e) | Analysis of Saturated Fraction by Capillary GC | Per sample | US\$ | 95.00 |
| f) | Analysis of Saturated Biomarker by GC-MS (SIM) | Per sample | US\$ | 300.00 |
| g) | Analysis of Aromatic Biomarker by GC-MS | Per sample | US\$ | 300.00 |
| h) | Multiple Reaction Monitoring GC-MS of saturated fraction | Percobaan | US\$ | 650.00 |
| i) | Carbon Isotope Analysis of Whole oil, Topped oil or Chromatographic Fractions (Per Fraction) | Per sample | US\$ | 90.00 |
| j) | Determination of stable isotope composition of individual components in Oils by GC-IRMS | Per sample | US\$ | 750.00 |
| k) | Gravity (API) | Per sample | US\$ | 30.00 |
| l) | Sulphur Content | Per sample | US\$ | 115.00 |
| h. | Reservoir Geokimia | | | |
| | Analisa Screening | | | |
| a) | Rock-Eval Analysis | Per sample | US\$ | 50.00 |
| b) | Thermal Extraction-Pyrolysis GC by GHM | Per sample | US\$ | 150.00 |
| c) | Iatroscan Analysis | Per sample | US\$ | 50.00 |

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|----|---|------------|------|--------|
| d) | Biomarker Analysis by GC-MS on Aromatic Fraction (SIM) | Per sample | US\$ | 300.00 |
| e) | Biomarker Analysis by GC-MS of EOM (SIM) | Per sample | US\$ | 445.00 |
| i. | Analisa Follow-Up | | | |
| 1) | Sample Source Rock | | | |
| a) | Extraction of Organic Matter by Soxhlet | Per sample | US\$ | 40.00 |
| b) | Separation of Asphaltenes from the extract | Per sample | US\$ | 35.00 |
| c) | Separation of EOM by Column Chromatography | Per sample | US\$ | 30.00 |
| d) | Separation of EOM (includes R.GC-803 and R.GC-804) | Per sample | US\$ | 75.00 |
| e) | Iatroskan Analysis | Per sample | US\$ | 50.00 |
| f) | Capillary GC of Saturated Hydrocarbon Fraction | Per sample | US\$ | 85.00 |
| g) | Capillary GC of Aromatic Hydrocarbon Fraction (FID only) | Per sample | US\$ | 85.00 |
| h) | Full Scan GC-MS Analysis (Excluding Interpretation) | Per sample | US\$ | 400.00 |
| i) | Carbon Isotope Analysis of bulk fractions and kerogen (per fraction) | Per sample | US\$ | 90.00 |
| j) | Determination of stable isotope composition of individual components in extracts by GC-IRMS | Per sample | US\$ | 750.00 |
| 2) | Sample Core | | | |
| a) | Soxhlet Extraction | Per sample | US\$ | 40.00 |
| b) | Separation of Asphaltenes from Extract | Per sample | US\$ | 35.00 |
| c) | Separation of EOM by Column Chromatography | Per sample | US\$ | 30.00 |
| d) | Separation of EOM (includes R.GC-803 and R.GC-804) | Per sample | US\$ | 75.00 |
| e) | Capillary GC of Saturated Fraction | Per sample | US\$ | 85.00 |
| f) | Capillary GC of Aromatic Hydrocarbon Fraction (FID only) | Per sample | US\$ | 85.00 |
| g) | Biomarker Analysis by GC-MS of Saturated Fraction (SIM) | Per sample | US\$ | 285.00 |
| h) | Biomarker Analysis by GC-MS of Aromatic Fraction | Per sample | US\$ | 285.00 |
| i) | Carbon Isotope Analysis of bulk fractions and kerogen (per fraction) | Per sample | US\$ | 90.00 |
| j) | Determination of stable isotope composition of individual components in extracts by GC-IRMS | Per sample | US\$ | 750.00 |
| 3) | Sampel Minyak | | | |

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|----|---|------------|------|--------|
| a) | Separation of Asphaltenes from the extract | Per sample | US\$ | 35.00 |
| b) | Separation of EOM by Column Chromatography | Per sample | US\$ | 30.00 |
| c) | Separation of EOM (includes R.GC-803 and R.GC-804) | Per sample | US\$ | 75.00 |
| d) | Analysis of Saturated Fraction by Capillary GC | Per sample | US\$ | 85.00 |
| e) | Capillary GC of Aromatic Hydrocarbon Fraction (FID only) | Per sample | US\$ | 85.00 |
| f) | Biomarker Analysis by GC-MS of Saturated Fraction (SIM) | Per sample | US\$ | 285.00 |
| g) | Biomarker Analysis by GC-MS of Aromatic Fraction | Per sample | US\$ | 285.00 |
| h) | Determination of stable isotope composition of individual components in Oils by GC-IRMS | Per sample | US\$ | 750.00 |
| i) | Analysis of GC and GC-MS fingerprinting data for determination of reservoir compartmentalization | Per sample | US\$ | 750.00 |
| j. | <i>Sedimentologi dan Jasa-Jasa yang Berhubungan</i> | | | |
| | | Per sample | US\$ | 175.00 |
| 1) | <i>Petrography Of Carbonates</i> Detailed Petrographic Analysis of Carbonate Rock in Thin Section including determination of lithologies, main faunal and floral groups, texture, diagenetic texture and porosity type, together with interpretation of depositional environment. For more comprehensive evaluation on reservoir quality diagenetic history and porosity evaluation will be dealt with in detail | | | |
| 2) | <i>Petrography Of Clastic Rock</i> Detailed Petrographic Analysis of Siliciclastic Rock in Thin Section involving qualitative assessments of mineralogy, texture, and factors affecting reservoir quality including diagenesis (cementation, authigenic clays, dissolution, replacement, etc) and primary sedimentological parameters | Per sample | US\$ | 175.00 |
| 3) | <i>Petrography of Ingenous and Methamorphic Rock</i> | | | |
| a) | Basic description. identification and main mineralogy only | Per sample | US\$ | 125.00 |
| b) | Detailed description including paragenetic history of altered minerals | Per sample | US\$ | 175.00 |

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|----|--|------------|------|--------|
| c) | Core Description | Per feet | US\$ | 22.50 |
| d) | Core Description | Per meter | US\$ | 67.50 |
| e) | Description of Ditch Cutting Sample | Per feet | US\$ | 20.00 |
| f) | Sieve Analysis (6 sieves) | Per sample | US\$ | 75.00 |
| g) | Sieve Analysis (more than 6 sieves) | Per sample | US\$ | 110.00 |
| h) | Environmental studies on sands and sandstones including statistical parameters, size distribution curves, and environmental interpretation (cost depends on the number of sieves required) | Per sample | US\$ | 115.00 |
| 4) | X-Ray Diffraction | | | |
| a) | Semi-Quantitative Analysis of Bulk minerals | Per sample | US\$ | 125.00 |
| b) | Semi-Quantitative Analysis of Clay minerals | Per sample | US\$ | 150.00 |
| 5) | Scanning Electron Microscopy (SEM) | | | |
| a) | Geometry of pore system (including preparation of pore cast, and quantitative evaluation of size, shape and distribution of pores). | Per sample | US\$ | 375.00 |
| b) | SEM of core, sidewall core and cutting to provide general information on reservoir quality (pore system character, cements or pore-filling clays) and the development of diagenetic mineral phase. | Per sample | US\$ | 175.00 |
| 6) | Energy Dispersive Analysis by X-Ray (EDAX) | | | |
| | Rapid mineral identification of selected grains and semi-quantitative chemical analysis by EDAX. | Per sample | US\$ | 110.00 |
| 7) | Fluorescence Microscopy | | | |
| a) | New application of this technique in carbonate petrography is effectively useful in recognizing depositional facies and delineate fabrics and porosity relationship in certain highly dolomitized or recrystallized limestone previously uninterpretable using standard petrographic techniques. | Per sample | US\$ | 150.00 |
| b) | Cathodoluminescence | Per sample | US\$ | 250.00 |
| c) | Calcimetry | Per sample | US\$ | 35.00 |
| 8) | Thin Section Preparation | | | |
| a) | Standard preparation | Per sample | US\$ | 15.00 |
| b) | Blocking-in technique for ditch cutting samples | Per sample | US\$ | 13.00 |

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|------|---|------------|------|-------|
| | c) Impregnation by blue or green dyed resin under vacuum to illustrate porosity. | Per sample | US\$ | 10.00 |
| | d) Staining of Carbonate Minerals using Feigl's or Dickson solution, Titan Yellow or other methods. | Per sample | US\$ | 5.00 |
| | e) Feldspar stain | Per sample | US\$ | 10.00 |
| 2. | EKSPLOITASI | | | |
| a. | Formation Evaluation (Cores) | | | |
| 1) | Routine Core Analysis | | | |
| a) | Conventional Core Analysis (Plug Size) | | | |
| (1) | Complete (Porosity, Horizontal permeability and Fluid Contents) | Per sample | US\$ | 60.00 |
| (2) | Porosity, by Helium Injection-Boyle's Law | Per sample | US\$ | 30.00 |
| (3) | Horizontal Permeability | Per sample | US\$ | 30.00 |
| (4) | Klinkenberg Permeability | Per sample | US\$ | 60.00 |
| (4) | Slippage Factor Calculation | Per sample | US\$ | 10.00 |
| (6) | Vertical Permeability | Per sample | US\$ | 30.00 |
| (7) | Fluid Contents by Retort | Per sample | US\$ | 30.00 |
| (8) | Fluid Contents by Dean Stark | Per sample | US\$ | 30.00 |
| (9) | Grain Density (calculated) | Per sample | US\$ | 20.00 |
| (10) | Grain Density (measured) | Per sample | US\$ | 50.00 |
| (11) | Bulk (saturated) Density, by Mercury Injection | Per sample | US\$ | 18.00 |
| b) | Mounting Required for Soft or Friable Rocks | | | |
| (1) | By Hysol Resin | Per sample | US\$ | 22.00 |
| (2) | By Lead Jacket | Per sample | US\$ | 25.00 |
| (3) | By Plastic/Rubber Sleeve | Per sample | US\$ | 20.00 |
| (4) | Special Handling Required because Rock Type, Texture Per man-hour | Per sample | US\$ | 30.00 |
| c) | Sidewall Core Analysis | | | |
| (1) | Complete (Porosity, Permeability and Fluid Contents) | Per sample | US\$ | 75.00 |
| (2) | Porosity (by Helium Unjection-Boyle's Law) | Per sample | US\$ | 30.00 |
| (3) | Permeability (Horizontal only) | Per sample | US\$ | 30.00 |
| (4) | Grain Density (Calculated) | Per sample | US\$ | 20.00 |
| (5) | Grain Density (Measured) | Per sample | US\$ | 25.00 |
| (6) | Bulk (Saturated) Density, by Merccury Injection | Per sample | US\$ | 20.00 |
| d) | Full Diameter Core Analysis | | | |

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|--|---------------|------|--------|
| (1) Fluid Contents by Conventional Retort | Per sample | US\$ | 30.00 |
| (2) Porosity (Helium Injection-Boyle's Law) | Per sample | US\$ | 40.00 |
| (3) Horizontal Permeability, 2 Direction Measurements | Per sample | US\$ | 60.00 |
| (4) Vertical Permeability | Per sample | US\$ | 440.00 |
| (5) Fluid Contents by Dean Stark Method | Per sample | US\$ | 100.00 |
| (6) Grain Density (Calculate) | Per sample | US\$ | 225.00 |
| e) Miscellaneous | | | |
| (1) Specific Gravity of Fluid | Per sample | US\$ | 30.00 |
| (2) Viscosity of Fluid | Per sample | US\$ | 30.00 |
| (3) Rent of Dip Tank for Preservation of Core | Per hari | US\$ | 50.00 |
| f) On Site Core Catching | | | |
| Engineers on Site Core Catching (two man job) | Per hari | US\$ | 450.00 |
| g) Core Gamma Surface Log | | | |
| (1) Core Gamma Surface Log | Per feet | US\$ | 15.00 |
| (2) Spectral Core Gamma Surface Log | Per feet | US\$ | 15.00 |
| h) Core Slabbing and Polishing | | | |
| (1) Standard Core Slabbing, | Per cut/feet | US\$ | 6.00 |
| (2) Each additional Cut | Per feet | US\$ | 4.00 |
| (3) One Side Polish of Slabbing Core | Per Feet | US\$ | 13.00 |
| (4) Both Parallel Side Polish of Slabbed Core | Per feet/hour | US\$ | 20.00 |
| (5) Special Handling for Core/material packaging | Per hour | US\$ | 17.00 |
| i) Core Photographs | | | |
| (1) Core Photograph (Black and White) per sample 1 st Print (Paper 3.5 X 5) | Per lembar | US\$ | 5.00 |
| (2) Subsequent Prints | Per lembar | US\$ | 3.00 |
| (3) Core Photograph (Colour) per sample 1 st print (Paper 3.5 X 5). | Per lembar | US\$ | 10.00 |
| (4) Subsequent Prints | Per lembar | US\$ | 4.00 |
| (5) Colour Photograph up to 12 feet of Core per frame (Paper Print 10 X 8). | Per lembar | US\$ | 50.00 |
| (6) Subsequent Prints | Per lembar | US\$ | 10.00 |
| (7) Ultraviolet Light Core Photograph up to 12 feet of Core per Frame (Paper Print 110 X 8). | Per lembar | US\$ | 50.00 |

| | | | |
|--|------------|------|--------|
| (8) Subsequent Prints | Per lembar | US\$ | 10.00 |
| 2) Special Core Analysis (Plug Size) | | | |
| a) Capillary Pressure Test | Per sample | US\$ | 85.00 |
| Required data of chemical composition or ppm NaCl Equivalent of formation brine | | | |
| b) Porous-Plate Cell (Air-Water (2000 psi max)) | | | |
| (1) Single Point | Per sample | US\$ | 85.00 |
| (2) Two Points | Per sample | US\$ | 110.00 |
| (3) Complete Curve (six points) | Per sample | US\$ | 200.00 |
| c) Centrifuge (Oil-Water, Air-Oil, Air-Water) | | | |
| (1) Single Point | Per sample | US\$ | 85.00 |
| (2) Two Points | Per sample | US\$ | 120.00 |
| (3) Complete Curve (six points) | Per sample | US\$ | 265.00 |
| d) Mercury Injection | | | |
| (1) Single Point | Per sample | US\$ | 55.00 |
| (2) Two Points | Per sample | US\$ | 70.00 |
| (3) Complete Curve (0-1,500 psig) Drainage | Per sample | US\$ | 400.00 |
| (4) Complete Curve (0-1,500 psig) Drainage-Imbibition | Per sample | US\$ | 600.00 |
| (5) Complete Curve (0-60,000 psig) Drainage | Per sample | US\$ | 500.00 |
| (6) Complete Curve (0-60,000 psig) Drainage-Imbibition | Per sample | US\$ | 700.00 |
| (7) Above Water and Permeability (or Porosity) | Per sample | US\$ | 100.00 |
| (8) Calculation of Pore Size Distribution (in conjunction with Drainage Injection Pattern) | Per sample | US\$ | 100.00 |
| e) Liquid Permeability Tests | | | |
| (Required data of chemical composition or ppm NaCl Equivalent of formation brine) | | | |
| (1) Specific Water permeability | Per sample | US\$ | 70.00 |
| (2) Water Permeability as a Function of Throughput of initial Liquid. | Per sample | US\$ | 200.00 |
| (3) Each additional Liquid | Per sample | US\$ | 125.00 |
| (4) Effective Oil Permeability at Connate Water Saturation | Per sample | US\$ | 150.00 |
| (5) Single Phase Critical Velocity (ambient condition) | Per sample | US\$ | 560.00 |

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| | (6) Single Phase Critical Velocity (reservoir condition) | Per sample | US\$ | 750.00 |
| | (7) Return Permeability of Initial Liquid | Per sample | US\$ | 500.00 |
| | (8) Each additional Liquid | Per sample | US\$ | 200.00 |
| f) | Electrical Resistivity Measurements (Consolidated Samples Only) Required data of chemical composition or ppm NaCl Equivalent of formation brine Formation Factor (for m value) | | | |
| | (1) Scaling Tendency Analysis (CaCO ₃ , BaSO ₄ , SrSO ₄ , CaSO ₄) Formation factor ("m" value) no overburden pressure | Per sample | US\$ | 60.00 |
| | (2) Formation factor one overburden pressure | Per sample | US\$ | 150.00 |
| | (3) Each additional Pressure (includes data at 0 and 200) | Per sample | US\$ | 30.00 |
| g) | Resistivity Index (for n value) | | | |
| | (1) In conjunction with Porous Plate Cell Capillary Pressure Test (per sample, per point) | Per sample | US\$ | 25.00 |
| | (2) Not in conjunction with Capillary Pressure Test (per sample, per point). | Per sample | US\$ | 60.00 |
| | (3) Cation Exchange Capacity, wet chemistry method | Per sample | US\$ | 45.00 |
| h) | Waterflood Tests (Room Conditions) (Required data of chemical composition or ppm NaCl Equivalent of formation brine, and viscosity ratio of oil/brine) Basic Flood (no incremental data) | | | |
| | (1) Fresh | Per sample | US\$ | 365.00 |
| | (2) Restored | Per sample | US\$ | 315.00 |
| | (3) Full Diameter | Per sample | US\$ | 975.00 |
| i) | Waterflood Susceptibility (incremental data) (Required data of chemical composition or ppm NaCl Equivalent of formation brine, and viscosity ratio of oil/brine) | | | |
| | (1) Fresh | Per sample | US\$ | 750.00 |
| | (2) Restored | Per sample | US\$ | 700.00 |
| | (3) Full Diameter | Per sample | US\$ | 1,680.00 |
| j) | Water/Oil Relative Permeability (Unsteady State) Required data of chemical composition or ppm NaCl Equivalent of formation brine | | | |

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| | (1) Fresh | Per sample | US\$ | 750.00 |
| | (2) Restored | Per sample | US\$ | 700.00 |
| | (3) Full Diameter | Per sample | US\$ | 1,680.00 |
| k) | Water/Oil Relative Permeability (Steady State) Required data of chemical composition or ppm NaCl Equivalent of formation brine | | | |
| | (1) Fresh | Per sample | US\$ | 1,500.00 |
| | (2) Restored | Per sample | US\$ | 1,250.00 |
| l) | Residual Gas Determination Required data of chemical composition or ppm NaCl Equivalent of formation brine, and viscosity ratio of oil/brine | | | |
| | Imbibition Displacement | Per sample | US\$ | 365.00 |
| m) | Gas-Oil Relative Permeability (Gas Saturation Increasing) | | | |
| | (1) Without Connate Water | Per sample | US\$ | 650.00 |
| | (2) With Connate Water | Per sample | US\$ | 700.00 |
| | (3) Gas-Water (Gas saturation increasing) | Per sample | US\$ | 650.00 |
| | (4) Water-Gas (Water saturation increasing) | Per sample | US\$ | 650.00 |
| n) | Wet Ability Tests Required data of chemical composition or ppm NaCl Equivalent of formation brine | | | |
| | (1) Imbibition of oil and water at room conditions (per test) | Per sample | US\$ | 400.00 |
| | (2) Imbibition and Dynamic Displacement (Amott Method, per test) | Per sample | US\$ | 600.00 |
| | (3) Aging in Crude oil at Reservoir Temperature | Per sample | US\$ | 750.00 |
| o) | Over Burden Permeability and Porosity | | | |
| | (1) Air Permeability (per overburden pressure) | Per sample | US\$ | 90.00 |
| | (2) Porosity (Helium Porosimeter-Boyle's Law per Overburden pressure). | Per sample | US\$ | 90.00 |
| | (3) Permeability and Porosity (per overburden pressure) | Per sample | US\$ | 150.00 |
| p) | Over Burden Permeability and Porosity | | | |
| | Pore Volume Rock Compressibility | Per sample | US\$ | 500.00 |
| q) | Acoustic Velocity Tests (at Reservoir | | | |

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| | Pressure) | | | |
| | (1) Compressional Wave Velocity (Vp) | Per sample | US\$ | 200.00 |
| | (2) Shear Wave Velocity (Vs) | Per sample | US\$ | 200.00 |
| | (3) Young's Modulus | Per sample | US\$ | 50.00 |
| | (4) Poisson's Ratio | Per sample | US\$ | 50.00 |
| r) | Triaxial Compressive Strength Tests (at Reservoir Temperature) | | | |
| | (1) Complete Stress and Strain Curve (axial and lateral at one confining pressure) including Uniaxial Compressive Strength (UCS) | Per pekerjaan | US\$ | 1,600.00 |
| | (2) Elastic Moduli (static), complete | Per pekerjaan | US\$ | 200.00 |
| | (3) Mohr Envelope (does not include tests) | Per pekerjaan | US\$ | 200.00 |
| s) | Other Tests | | | |
| | (1) Direct Shear | Per sample | US\$ | 200.00 |
| | (2) Point Load Index | Per sample | US\$ | 100.00 |
| | (3) Indirect Tensile (Brazilian) | Per sample | US\$ | 150.00 |
| | (4) Abrasivity | Per sample | US\$ | 120.00 |
| | (5) Three Point Bend | Per sample | US\$ | 110.00 |
| | (6) Hollow Cylinder Stress (whole core) | Per sample | US\$ | 700.00 |
| | (7) Scratching Test (Cerchar Test) | Per Feet | US\$ | 40.00 |
| 3) | T.CT-Scanning Services | | | |
| a) | Scanning on Whole Core | | | |
| | (1) Whole core sample, including 2 transverse and 2 axial scans | Per sample | US\$ | 125.00 |
| | (2) Additional transverse or axial scan | Per sample | US\$ | 30.00 |
| b) | Scanning on Plug Sample | | | |
| | (1) Plug sample, including 2 transverse and 2 axial scans | Per sample | US\$ | 60.00 |
| | (2) Additional transverse or axial scan | Per sample | US\$ | 20.00 |
| c) | Relative Permeability Measurement (Unsteady State) | | | |
| | (1) Kw/Ko measurement with T.CT-scan. (2 transverse and 2 axis scans) | Per sample | US\$ | 1,500.00 |
| | (2) Additional transverse or axial scan | Per sample | US\$ | 40.00 |
| d) | Data Presentation and Storage | | | |
| | (1) Paper print of T.CT-scan | Per lembar | US\$ | 12.00 |
| | (2) Digitize and extract T.CT-scan image | Per lembar | US\$ | 8.00 |

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| | (3) Scans saved onto CD-ROM, Per CD | Per lembar | US\$ | 60.00 |
| 4) | Other Services | | | |
| a) | Basic Reservoir Description (Routine core-based) | | | |
| | (1) Core plugs-based study (minimum charge is for 10 plugs) | Per plug | US\$ | 40.00 |
| | (2) Mini permeametry/porosimetry-based study (minimum charge is for 10 feet) | Per Feet | US\$ | 70.00 |
| | (3) Combination of core plugs and mini permeametry/porosimetry | Per plug | US\$ | 25.00 |
| | (4) Permeametry Porosimetry data | Per Feet | US\$ | 35.00 |
| b) | Advance Reservoir Description | | | |
| | Integrated core-based reservoir description (minimum charge is for 7 dis) | Per hari | US\$ | 600.00 |
| b. | Reservoir Fluid Studies | | | |
| 1) | Black Oil Reservoir Fluid Study (Subsurface Sample) | | | |
| a) | Pressure-Volume Relation of reservoir fluid at reservoir temperature, including saturation pressure determination, compressibility of oil above saturation pressure and two-phase volume below saturation pressure | Per sample | US\$ | 950.00 |
| b) | Differential Vaporization of reservoir fluid at reservoir temperature, and presentation of gas solubility and oil shrinkage data | Per sample | US\$ | 915.00 |
| c) | Determination of specific gravity and compressibility factor of liberated gas at all points on Differential Vaporization and determination of density of the liquid phase | Per sample | US\$ | 550.00 |
| d) | Viscosity of reservoir fluid at reservoir temperature and pressure from above reservoir pressure to atmospheric pressure | Per sample | US\$ | 775.00 |
| e) | Separator test at four single-stage separator pressure (including 0 psig) at specified temperature to determine the effects of separator pressure on solution Gas Oil Ratio, Formation Volume Factor and Stock Tank Oil Gravity | Per sample | US\$ | 1,225.00 |
| f) | Compositional analysis of separator gases from the above Separators Test (four compositions) | Per sample | US\$ | 725.00 |

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| g) | Compositional analysis of reservoir fluid through heptanes plus including supplemental determinations for nitrogen, carbon dioxide and hydrogen sulfide by Flash Chromatography technique. Molecular weight and density of heptanes plus fraction are included. | Per sample | US\$ | 475.00 |
| h) | Special Requests: | | | |
| | (1) Atmospheric pressure separator test at laboratory temperature to determine of Oil Shrinkage Factor, Stock Tank Oil Gravity and GOR. | Per sample | US\$ | 300.00 |
| | (2) Multi-stage separator test including determination of separator volume factors at each stage of separation at specified separator temperature. | Per sample | US\$ | 550.00 |
| | (3) Determination of saturation pressure of subsurface sample at reservoir temperature. | Per sample | US\$ | 300.00 |
| 2) | Black Oil Reservoir Fluid Study (Recombination of Separator Gas and Oil) | | | |
| a) | Standard validity test of separator fluid, determination of saturation pressure of separator oil at separator temperature, and opening gas bottle pressure at laboratory temperature. | Per sample | US\$ | 150.00 |
| b) | Compositional analysis of separator oil and gas up to heptanes plus fraction, including determination of nitrogen and carbon dioxide fractions as well as calculation of recombined fluid composition. | Per sample | US\$ | 775.00 |
| c) | Recombination of separator fluid at specified GOR. | Per sample | US\$ | 600.00 |
| d) | Identical to T.RF-110 through T.RF-160 | Per sample | US\$ | 5,140.00 |
| e) | Special Requests: | | | |
| | (1) Advanced Quality Check of samples received in laboratory using Hoffmanns method (or similar method) | Per sample | US\$ | 480.00 |
| | (2) Adjustment of recombined fluid to a specified GOR or saturation pressure. | Per sample | US\$ | 400.00 |
| | (3) Additional charge for extension in service of T.RF-210 to undecanes plus fraction | Per sample | US\$ | 350.00 |
| | (4) Compositional analysis of separator oil to heptanes plus fraction including | Per sample | US\$ | 400.00 |

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| | molecular weight and density of heptanes plus fraction. | | | |
| | (5) Compositional analysis of separator oil to undecanes plus fraction including molecular weight and density of heptanes and undecanes plus fraction. | Per sample | US\$ | 550.00 |
| 3) | Gas-Condensate Reservoir Fluid Study (Recombination of Separator Gas and Liquid) | | | |
| a) | Standard validity test of separator fluid, determination of saturation pressure of separator liquid at separator temperature, and opening gas bottle pressure at laboratory temperature | Per sample | US\$ | 150.00 |
| b) | Compositional analysis of separator gas and liquid up to heptanes plus fraction, including determination of nitrogen and carbon dioxide as well as calculation of recombined fluid composition | Per sample | US\$ | 775.00 |
| c) | Recombination of separator fluid at specified of GOR | Per sample | US\$ | 600.00 |
| d) | Constant Composition Expansion study of reservoir fluid, including Dew Point Pressure determination and Pressure Volume Relation of recombined fluid at reservoir temperature | Per sample | US\$ | 950.00 |
| e) | Constant Composition Expansion study of reservoir fluid, including Dew Point Pressure determination and Pressure Volume Relation of recombined fluid at reservoir temperature | Per sample | US\$ | 950.00 |
| f) | Retrograde liquid accumulation in reservoir determined at pressure investigated in test above. | Per sample | US\$ | 585.00 |
| g) | Special Requests | | | |
| (1) | Adjustment of recombined fluid to a specified GLR or Dew Point Pressure. | Per sample | US\$ | 400.00 |
| (2) | Additional charge for extension to undecanes plus fraction | Per sample | US\$ | 350.00 |
| (3) | Compositional analysis of separator condensate to heptanes plus fraction including molecular weight and density of heptanes plus fraction | Per sample | US\$ | 400.00 |
| (4) | Compositional analysis of separator condensate to undecanes plus fraction including molecular weight and density of heptanes and undecanes plus fraction | Per sample | US\$ | 550.00 |
| (5) | Compositional analysis of separator oil to eicosanes plus fraction including molecular weight and density of | Per sample | US\$ | 750.00 |

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| | heptanes and eicosanes plus fraction. | | | |
| | (6) Atmospheric pressure separator test at laboratory temperature to determine oil shrinkage factor, stock tank oil gravity and GOR | Per sample | US\$ | 300.00 |
| | (7) Retrograde liquid accumulation in reservoir during Constant Composition Expansion Test | Per sample | US\$ | 585.00 |
| 4) | Volatile Oil Reservoir Fluid Study | | | |
| | a) Validity test of separator fluid, determination of saturation pressure of separator oil at separator temperature, and opening gas bottle pressure at laboratory temperature | Per sample | US\$ | 150.00 |
| | b) Compositional analysis of separator gas and liquid up to heptanes plus fraction, including determination of nitrogen and carbon dioxide fractions as well as calculation of recombined fluid composition | Per sample | US\$ | 775.00 |
| | c) Recombination of separator fluid at specified GOR | Per sample | US\$ | 600.00 |
| | d) Determination Saturation Pressure and Pressure-Volume Relations of recombined fluid at reservoir temperature | Per sample | US\$ | 950.00 |
| | e) Constant Volume Depletion Study at reservoir temperature to determine the gas phase composition, gas volume produced and deviation factors at several pressure from saturation pressure to abandonment pressure. Includes composition of equilibrium liquid phase at final depletion pressure | Per sample | US\$ | 4,500.00 |
| | f) Liquid shrinkage versus pressure using Constant Volume Depletion techniques as above | Per sample | US\$ | 600.00 |
| | g) Viscosity of liquid phase at reservoir temperature at several pressures from above reservoir pressure to atmospheric pressure | Per sample | US\$ | 775.00 |
| | h) Special Requests: | | | |
| | (1) Adjustment of recombined fluid to a specified GOR or saturation pressure. | Per sample | US\$ | 400.00 |
| | (2) Additional charge for extension in service of T.RF-420 to undecanes plus fraction | Per sample | US\$ | 350.00 |
| | (3) Compositional analysis of separator oil up to heptanes plus fraction including molecular weight and density of heptanes plus fraction | Per sample | US\$ | 400.00 |
| 5) | Compositional Analysis of Gas, Oil and Analysis of Formation Water Samples | | | |
| | a) Chromatographic Analysis of Gas sample, | | | |

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| including determination of Nitrogen, Carbon Dioxide and Hydrogen Sulfide | | | |
| (1) Methane through heptanes plus fraction | Per sample | US\$ | 180.00 |
| (2) Methane through undecanes plus fraction | Per sample | US\$ | 250.00 |
| (3) Methane through eicosanes plus fraction | Per sample | US\$ | 300.00 |
| (4) Gas gravity (measured) | Per sample | US\$ | 50.00 |
| b) Atmospheric Oil Compositional Analysis | | | |
| (1) Methane through heptanes plus fraction | Per sample | US\$ | 165.00 |
| (2) Methane through undecanes plus fraction | Per sample | US\$ | 300.00 |
| (3) Methane through eicosanes plus fraction | Per sample | US\$ | 350.00 |
| c) Pressurized Oil Compositional Analysis | | | |
| (1) Methane through heptanes plus fraction, including determination of N ₂ , CO ₂ , molecular weight and density of plus fraction | Per sample | US\$ | 400.00 |
| (2) Methane through undecanes plus fraction, including determination of N ₂ , CO ₂ , molecular weight and density of plus fraction | Per sample | US\$ | 550.00 |
| (3) Methane through eicosanes plus fraction, including determination of N ₂ , CO ₂ , molecular weight and density of plus fraction | Per sample | US\$ | 750.00 |
| d) Formation Water Analysis | | | |
| (1) Complete chemical analysis of formation water analysis or mud filtrate sample (including total dissolved solids, dissolved solid (10 ions), pH, hydrogen sulfide, specific gravity, calculated resistivity and presentation of Stiff Diagram) | Per sample | US\$ | 180.00 |
| (2) Chloride and Total dissolved solids | Per sample | US\$ | 40.00 |
| (3) Resistivity at room temperature (measured) | Per sample | US\$ | 25.00 |
| (4) Nitrate | Per sample | US\$ | 20.00 |
| (5) Calcium, Chromium, Copper, Magnesium, Manganese, Molybdenum, Potassium | Per unsur | US\$ | 20.00 |
| (6) Barium, Strontium, Lithium | Per unsur | US\$ | 20.00 |

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| | (7) Vanadium, Nickel | Per unsur | US\$ | 20.00 |
| | (8) Lead | Per unsur | US\$ | 50.00 |
| e) | Reservoir Fluid Sampling | | | |
| | (1) Bottom Hole Sampling: | | | |
| | (a) two men-job, 1(one) Engineer plus 1(one) Ass. Engineer Personnel, and field sample handling: Engineer | Per hari | US\$ | 350.00 |
| | (b) Ass. Engineer. | Per hari | US\$ | 350.00 |
| | (c) Determination of surface bubble point pressure and transfer to high pressure shipping bottle, per sample | Per sample | US\$ | 300.00 |
| | (2) Rental Charge of Bottom Hole Sampling Unit, including spare, transfer head, high-pressure mercury pump | Per bulan | US\$ | 1,350.00 |
| | (3) Rental Charge of Bottom Hole Sampling Unit, including spare, transfer head, high-pressure mercury pump | Per hari | US\$ | 135.00 |
| | (4) Surface Sampling, one man-job | Per hari | US\$ | 450.00 |
| f) | Sample Bottle Rental Fee | | | |
| | (1) Mild Steel, XLPG, 20 litre, 480 psi working pressure for gas sample | Per bulan | US\$ | 75.00 |
| | (2) Mild Steel, XLPG, 20 litre, 480 psi working pressure for gas sample | Per hari | US\$ | 5.00 |
| | (3) Stainless Steel, Hook, 500 cc, 1800 psi working pressure for gas sample. | Per bulan | US\$ | 75.00 |
| | (4) Stainless Steel, Hook, 500 cc, 1800 psi working pressure for gas sample. | Per hari | US\$ | 5.00 |
| | (5) Aluminium alloy, 20 litre, 2000 psi working pressure for gas sample | Per bulan | US\$ | 90.00 |
| | (6) Aluminium alloy, 20 litre, 2000 psi working pressure for gas sample | Per hari | US\$ | 5.00 |
| | (7) Stainless Steel, 700 cc 10.000 psi working pressure for oil sample | Per bulan | US\$ | 90.00 |
| | (8) Stainless Steel, 700 cc 10.000 psi working pressure for oil sample | Per hari | US\$ | 5.00 |
| c. | Enhanced Oil Recovery Study | | | |
| | 1) Miscible Gas / CO2 Tests | | | |
| | a) Oil Characterization Test | | | |
| | (1) Fundamental tests : crude and gas chemical compositional analysis, density and viscosity (screening test) | Per paket | US\$ | 1,500.00 |

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| | (2) Miscibility correlative studies | Per sample | US\$ | 500.00 |
| | (3) Minimum Miscibility Pressure determination (using slim tube) | Per sample | US\$ | 1,250.00 |
| | b) Secondary Oil Recovery | | | |
| | (1) Plug sample | Per sample | US\$ | 4,000.00 |
| | (2) One-Foot long composite sample | Per sample | US\$ | 5,500.00 |
| | (3) One-meter long sample | Per sample | US\$ | 10,000.00 |
| | c) Tertiary Oil Recovery | | | |
| | (1) Plug sample | Per sample | US\$ | 7,000.00 |
| | (2) One-Foot long composite sample | Per sample | US\$ | 8,000.00 |
| | (3) One-meter long sample | Per sample | US\$ | 10,000.00 |
| 2) | Chemical Flooding Test | | | |
| | a) Oil Characterization | | | |
| | (1) Fundamental tests: crude and gas chemical compositional analysis, density and viscosity (screening test) | Per paket | US\$ | 1,500.00 |
| | (2) Water analysis: chemical composition, ten ions, specific gravity, pH, viscosity, and hardness test | Per sample | US\$ | 1,000.00 |
| | (3) Interfacial tension Test (for surfactant) | Per sample | US\$ | 400.00 |
| | b) Polymer Rheology Evaluation | | | |
| | (1) Viscosity vs. shear rate | Per sample | US\$ | 190.00 |
| | (2) Screen Factor | Per sample | US\$ | 50.00 |
| | (3) Filtration Test | Per sample | US\$ | 190.00 |
| | (4) Polymer thermal stability test | Per sample | US\$ | 3,500.00 |
| | c) Polymer Infectivity Tests | | | |
| | (1) Fresh water sensitivity test | Per sample | US\$ | 1,750.00 |
| | (2) Basic polymer core test | Per sample | US\$ | 2,500.00 |
| | (3) Polymer retention test (RF and RRF) | Per sample | US\$ | 3,750.00 |
| | (4) Adsorption test, static method | Per sample | US\$ | 150.00 |
| | (5) Adsorption test, dynamic method | Per sample | US\$ | 1,250.00 |
| | (6) Multistep polymer core test | Per sample | US\$ | 5,500.00 |
| | (7) Polymer Shear Test (6 rates) | Per sample | US\$ | 4,000.00 |
| | d) Chemical Oil-Recovery Tests | | | |
| | (1) Secondary - plug sample | Per sample | US\$ | 3,750.00 |
| | (2) Secondary - One-Foot long composite, sand pack sample | Per sample | US\$ | 5,000.00 |
| | (3) Tertiary plug sample | Per sample | US\$ | 5,250.00 |
| | (4) Tertiary One-Foot long composite, sand pack sample | Per sample | US\$ | 7,000.00 |
| d. | Drilling | | | |

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| 1) Oil-Well and Mud Materials | | | |
| a) API Specification 10A Test: Well Cement Material | Per sample | US\$ | 690.00 |
| b) Free Water Contents | Per sample | US\$ | 50.00 |
| c) Soundness (Autoclave Expansion) | Per sample | US\$ | 100.00 |
| d) Compressive Strength Test, 8 hrs. Cured at atmospheric pressure | Per sample | US\$ | 150.00 |
| e) Permeability Test, 24 hrs. Cured at Atmospheric Condition | Per sample | US\$ | 175.00 |
| f) Additional curing time at atmospheric pressure per Hari | Per sample | US\$ | 2.00 |
| g) Compressive Strength Test, 24 hrs. Cured under Reservoir Condition. | Per sample | US\$ | 325.00 |
| h) Permeability Test, 24 hrs. Cured under Reservoir Condition | Per sample | US\$ | 350.00 |
| i) Additional curing time under reservoir condition per Hari | Per sample | US\$ | 7.00 |
| j) Fineness by Turbidimeter | Per sample | US\$ | 100.00 |
| k) Thickening Time Test by HP-HT Consistometer | Per sample | US\$ | 175.00 |
| l) Thickening Time Test by Atmospheric Consistometer | Per sample | US\$ | 100.00 |
| m) Rheology Test on Cement Slurry at Atm. Press. /Room temp. | Per sample | US\$ | 60.00 |
| n) Rheology Test on Cement Slurry at temp. Up to 200°F | Per sample | US\$ | 120.00 |
| o) Initial Setting Time Test | Per sample | US\$ | 100.00 |
| p) API Fluid Loss Test | Per sample | US\$ | 55.00 |
| q) HP-HT Fluid Loss Test of Cement Slurry | Per sample | US\$ | 150.00 |
| r) Chemical Analysis of Cement | Per sample | US\$ | 140.00 |
| s) Compressive Strength Test, test specimens supplied by Client | Per sample | US\$ | 20.00 |
| t) Permeability Test, test specimens supplied by client | Per sample | US\$ | 50.00 |
| 2) Fly Ash | | | |
| a) API Specification 10 Test of Fly Ash | Per sample | US\$ | 300.00 |
| b) Pozzolanic Activity Index with Lime (ASTM C-618 and C-311) | Per sample | US\$ | 150.00 |
| c) Chemical Analysis of Fly Ash | Per sample | US\$ | 135.00 |
| 3) Bentonite Materials | | | |
| a) API Specification Test of Bentonite | Per sample | US\$ | 160.00 |
| b) Chemical Analysis of Bentonite | Per sample | US\$ | 105.00 |
| c) Yield Clay Analysis | Per sample | US\$ | 250.00 |

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| d) | Bentonite - CLS Dispersed Yield Analysis | Per sample | US\$ | 75.00 |
| e) | Bentonite Performance Test (API Spec. 131) | Per sample | US\$ | 340.00 |
| f) | Modified Sea Water Mud Test | Per sample | US\$ | 60.00 |
| g) | Low Salinity Mud Test | Per sample | US\$ | 60.00 |
| h) | Lime Treated Mud Test | Per sample | US\$ | 200.00 |
| i) | Low Solids Non Dispersed Mud Test | Per sample | US\$ | 60.00 |
| j) | Fresh Water Lignosulfonate Mud Test | Per sample | US\$ | 75.00 |
| k) | Hot Rolling (16 hrs. aging) and Rheology Test | Per sample | US\$ | 200.00 |
| l) | Cation Exchange Capacity Test (CEC) | Per sample | US\$ | 60.00 |
| m) | Bentonite Performance Test, mixed with Cement (API Spec 10). | Per sample | US\$ | 370.00 |
| 4) | DRILLING FLUIDS | | | |
| a) | API Mud Check for WBM, excluding HT-HP Fluid Loss Test. | Per sample | US\$ | 135.00 |
| b) | API Mud Check for WBM, including HT-HP Fluid Loss Test. | Per sample | US\$ | 195.00 |
| c) | API Mud Check for Oil Base Muds | Per sample | US\$ | 225.00 |
| d) | Rheological Test at Room Temperature | Per sample | US\$ | 60.00 |
| e) | Rheology Test at temperature up to 200°F | Per sample | US\$ | 60.00 |
| f) | Rheology Test at HPHT | Per sample | US\$ | 175.00 |
| g) | Filtration Test, API | Per sample | US\$ | 35.00 |
| h) | Filtration Test, HPHT | Per sample | US\$ | 75.00 |
| i) | Viscosity, Marsh Funnel | Per sample | US\$ | 30.00 |
| j) | Density, Mud Balance | Per sample | US\$ | 20.00 |
| k) | Alkalinity Test of Mud, Pm | Per sample | US\$ | 20.00 |
| l) | Alkalinity Test of Filtrate, Pf | Per sample | US\$ | 35.00 |
| m) | Lime Content | Per sample | US\$ | 20.00 |
| n) | Chloride Content | Per sample | US\$ | 20.00 |
| o) | Total Hardness as Ca | Per sample | US\$ | 20.00 |
| p) | Calcium Sulfate Content | Per sample | US\$ | 25.00 |
| q) | Formaldehyde Determination | Per sample | US\$ | 27.00 |
| r) | Potassium Determination | Per sample | US\$ | 22.00 |
| s) | Sand Content | Per sample | US\$ | 17.00 |
| t) | Liquid and Solids Content Test, Retort | Per sample | US\$ | 75.00 |
| u) | Methylene Blue Test of Mud | Per sample | US\$ | 50.00 |
| v) | Heavy Metal Analysis in Drilling Fluid: Cd, Cu Pb, Zn and Hg, including Oil Content | Per sample | US\$ | 141.00 |
| w) | Additional Total Metal Analysis per Unsur | Per unsur | US\$ | 18.00 |

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|----|--|------------|------|----------|
| x) | Toxicity Characteristic Leaching Procedure (TCLP) analysis per Unsurt. | Per unsur | US\$ | 25.00 |
| y) | Mud Toxicity by using LC-50/96 hours (U.S. EPA Methods). | Per sample | US\$ | 850.00 |
| 5) | Weighting Materials | | | |
| a) | API Specification-13A Test of Barite | Per sample | US\$ | 125.00 |
| b) | Laser Particle Size Analysis for D50 Fines | Per sample | US\$ | 75.00 |
| c) | Performance Test of Barite (API RP 13I) | Per sample | US\$ | 295.00 |
| d) | Performance Test of Barite by adding Gypsum (OCMA DFCP-3). | Per sample | US\$ | 75.00 |
| e) | Abbrassiveness of Barite (API RP13I) | Per sample | US\$ | 175.00 |
| f) | Total Metals Analysis in Barite per Unsurt | Per sample | US\$ | 18.00 |
| g) | Leach able Test per Unsurt | Per sample | US\$ | 25.00 |
| h) | Purity analysis of Barite | Per sample | US\$ | 100.00 |
| i) | API Specification-13A Test of Hematite Powder | Per sample | US\$ | 140.00 |
| j) | Purity Analysis of Hematite | Per sample | US\$ | 100.00 |
| 6) | Filtration Control Agents RP131 | | | |
| a) | Initial Performance Test | Per sample | US\$ | 225.00 |
| b) | Performance Test After Heat Aging | Per sample | US\$ | 350.00 |
| c) | Saturated Salt Mud Test | Per sample | US\$ | 75.00 |
| d) | High Hardness Content Saturated Salt Mud Test | Per sample | US\$ | 75.00 |
| e) | 10% KCl Mud Test | Per sample | US\$ | 90.00 |
| 7) | Performance Analysis of: | | | |
| a) | Gravel Pack Sand (API RP 58) with photo | Per sample | US\$ | 310.00 |
| b) | Gravel Pack Sand (API RP 58) without photo | Per sample | US\$ | 215.00 |
| c) | Fracturing Sand (API RP 56) | Per sample | US\$ | 350.00 |
| d) | Starch (API Spec 13A) | Per sample | US\$ | 180.00 |
| e) | CMC - HV (API Spec 13A) | Per sample | US\$ | 250.00 |
| f) | CMC - LV (API Spec. 13A) | Per sample | US\$ | 200.00 |
| g) | HEC | Per sample | US\$ | 250.00 |
| h) | Tannin/Lignin (OCMA) | Per sample | US\$ | 145.00 |
| i) | Lignite (4 temp. of hot roll, viscosity and filtration) | Per sample | US\$ | 1,270.00 |
| j) | Polyanionic Cellulose (PAC) | Per sample | US\$ | 250.00 |
| k) | Lignosulfonate mix with bentonite at variable concentration, Rheology and filtration | Per sample | US\$ | 200.00 |
| 8) | Additive Materials | | | |
| a) | Purity Analysis of Potassium Chloride | Per sample | US\$ | 100.00 |

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|-----|--|------------|------|----------|
| b) | Purity Analysis of Sodium Chloride | Per sample | US\$ | 100.00 |
| c) | Purity Analysis of Calcium Chloride | Per sample | US\$ | 100.00 |
| d) | Purity Analysis of Potassium Nitrate | Per sample | US\$ | 100.00 |
| e) | Purity Analysis of Soda Ash | Per sample | US\$ | 100.00 |
| f) | Purity Analysis of Caustic Soda | Per sample | US\$ | 100.00 |
| g) | Purity Analysis of Sodium Bicarbonate | Per sample | US\$ | 100.00 |
| h) | Purity Analysis of Hydrate Lime | Per sample | US\$ | 100.00 |
| i) | Purity Analysis of Silica Flour | Per sample | US\$ | 110.00 |
| j) | Chemical Analysis of Base Oils used in Drilling Fluids (RP13). | Per sample | US\$ | 185.00 |
| k) | Evaluation of Lignite (D.I., Caustic Solubility, pH, Moisture and Retained on Sieve No. 20. | Per sample | US\$ | 270.00 |
| 9) | Clay Stabilizer Evaluation | | | |
| a) | Clay/Fine Stabilizer Effectiveness (Need Reservoir Core Where the Stabilizer being used and Formation Water) | Per sample | US\$ | 1,500.00 |
| b) | Additional Information concerning Stabilizer Evaluation, Include SEM, XRD Analysis | Per sample | US\$ | 350.00 |
| 10) | Water and Corrosion | | | |
| a) | Water Quality Analysis (NACE Standard) | Per sample | US\$ | 250.00 |
| b) | Scaling Tendency Analysis (CaCO ₃ , BaSO ₄ , SrSO ₄ , CaSO ₄) | Per sample | US\$ | 250.00 |
| c) | Critical Velocity of Water Simulation Fluid | Per sample | US\$ | 750.00 |
| d) | Compatibility Test of Water Aging and Rolling at Reservoir Temperature | Per sample | US\$ | 500.00 |
| e) | Compatibility test of water, Aging at Room Temperature | Per sample | US\$ | 175.00 |
| f) | Filter Test Using OSU F-II method | Per sample | US\$ | 500.00 |
| g) | Particle Size Distribution using Automatic Particle Counter 1 - 60 m | Per sample | US\$ | 100.00 |
| h) | Corrosion Coupon Analysis NACE RP 0775-87 | Per sample | US\$ | 500.00 |
| i) | Corrosion Inhibitor Quality Control Test | Per sample | US\$ | 241.00 |
| j) | Scale Deposited Analysis | Per sample | US\$ | 172.00 |
| k) | Additional trace metals of scale Deposited | Per sample | US\$ | 18.00 |
| l) | Complete Water Analysis API RP 45 | Per sample | US\$ | 180.00 |
| m) | Analysis of Water as required by Kep Men KLH No.51/1995 | Per sample | US\$ | 370.00 |
| n) | Analysis of Non-Dissolved Solids in Water | Per sample | US\$ | 115.00 |
| o) | Oily Matter in Waste Water | Per sample | US\$ | 87.00 |
| p) | BOD | Per sample | US\$ | 60.00 |

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|-----|---|------------|------|----------|
| q) | COD | Per sample | US\$ | 40.00 |
| r) | Dissolved Oxygen | Per sample | US\$ | 35.00 |
| s) | Phenol | Per sample | US\$ | 50.00 |
| t) | Free Chlorine | Per sample | US\$ | 20.00 |
| u) | Dissolved Sulfate | Per sample | US\$ | 20.00 |
| v) | Dissolved Ammonia | Per sample | US\$ | 20.00 |
| w) | Bicarbonate | Per sample | US\$ | 18.00 |
| x) | Carbonate | Per sample | US\$ | 18.00 |
| y) | Chloride | Per sample | US\$ | 20.00 |
| z) | Sulfide | Per sample | US\$ | 18.00 |
| aa) | Hydroxide | Per sample | US\$ | 18.00 |
| bb) | Additional individual constituent analysis. | Per sample | US\$ | 18.00 |
| 11) | Other Services | | | |
| a) | Acid Solubility Test | Per sample | US\$ | 85.00 |
| b) | Acid-Crude Compatibility Test | Per sample | US\$ | 175.00 |
| c) | Bulk Density of Powder | Per sample | US\$ | 20.00 |
| d) | Crush Resistance of Sands | Per sample | US\$ | 40.00 |
| e) | Dry Sieve Analysis, 6 Sieves | Per sample | US\$ | 60.00 |
| f) | Moisture Content | Per sample | US\$ | 30.00 |
| g) | Sand Shape Identification by using a SEM Photo | Per sample | US\$ | 100.00 |
| h) | Sand Shape Identification by using a Comparator | Per sample | US\$ | 55.00 |
| i) | pH Test | Per sample | US\$ | 10.00 |
| j) | Specific Gravity | Per sample | US\$ | 35.00 |
| k) | Turbidity Test in FTU | Per sample | US\$ | 75.00 |
| l) | Wet Screen Analysis, 1 Sieve | Per sample | US\$ | 35.00 |
| m) | Sampling of Drilling Materials (two men job) | | | |
| | (1) Sampling Operator Charges | Per hari | US\$ | 200.00 |
| | (2) Assistant Sampling Operator Charges | Per hari | US\$ | 150.00 |
| e. | PRODUCTION | | | |
| 1) | Production Testing | | | |
| a) | Production Testing Analysis Consulting (8 hours/day at minimum) | Per jam | US\$ | 75.00 |
| b) | Production Testing Operator | Per hari | US\$ | 400.00 |
| c) | Production Testing Assistant | Per hari | US\$ | 250.00 |
| d) | Digital Dynamometer | Per hari | US\$ | 750.00 |
| e) | Digital Well Sounder (liquid tracking & PBU test) | Per hari | US\$ | 1,000.00 |

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|------|--|---------------|------|----------|
| f) | Digital Wheel Analyser (Dynamometer, liquid tracking & PBU test, 3 days/wheel maximum, 10 wheel minimum) | Per sumur | US\$ | 2,000.00 |
| g) | Extension | Per hari | US\$ | 400.00 |
| h) | Stand by | Per hari | US\$ | 400.00 |
| i) | Special Analysis for PBU test, dynagraph interpretation (including sucker rod pump design) | Per pekerjaan | US\$ | 100.00 |
| 2) | Wireline Assistance | | | |
| a) | Wireline Operator | Per hari | US\$ | 450.00 |
| b) | Wireline Assistant | Per hari | US\$ | 250.00 |
| 3) | Equipment Rental Fee | | | |
| | Bottom Hole Sampler Set, including spare, transfer head High Pressure Mercury Pump of 10,000 psi working pressure: | | | |
| (1) | Single Mode Sampler | Per bulan | US\$ | 1,350.00 |
| (2) | Single Mode Sampler | Per hari | US\$ | 135.00 |
| (3) | Tandem Mode Sampler | Per bulan | US\$ | 1,750.00 |
| (4) | Tandem Mode Sampler | Per hari | US\$ | 175.00 |
| (5) | Charge per successful Sample | Per hari | US\$ | 200.00 |
| (6) | Gas Gravity Apparatus | Per bulan | US\$ | 270.00 |
| (7) | Gas Gravity Apparatus | Per hari | US\$ | 27.00 |
| (8) | Portable Dead Weight Tester | Per bulan | US\$ | 750.00 |
| (9) | Bottom Hole Pressure and Temperature Survey Equipment, complete with pressure, temperature and clock Unsurt | Per bulan | US\$ | 450.00 |
| (10) | Bottom Hole Pressure and Temperature Survey Equipment, complete with pressure, temperature and clock Unsurt | Per hari | US\$ | 70.00 |
| (11) | Bottom Hole Pressure Unsurt | Per bulan | US\$ | 175.00 |
| (12) | Bottom Hole Pressure Unsurt | Per hari | US\$ | 20.00 |
| (13) | Well Thermometer Maximum | Per bulan | US\$ | 100.00 |
| (14) | Amerada Clock: 3, 12, 24, 48, and 72 hrs ratching | Per bulan | US\$ | 100.00 |
| (15) | Amerada Clock: 3, 12, 24, 48, and 72 hrs ratching | Per hari | US\$ | 15.00 |
| 4) | Amerada Calibration | | | |
| | Calibration of Amerada Pressure Unsurt at specified temperature | Per unsur | US\$ | 100.00 |
| 3. | PROSES | | | |
| a. | General Characteristic Of Crude Oil | | | |
| 1) | API Gravityat60F (ASTM D-287) | Per sample | US\$ | 13.00 |
| 2) | Flash Point ABEL (IP-170) | Per sample | US\$ | 21.00 |

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| 3) Hydrogen Sulfide,H2S (UOP-163) | Per sample | US\$ | 39.00 |
| 4) Kinematic Viscosity at 100F (ASTM D-445) | Per sample | US\$ | 22.50 |
| 5) Kinematic Viscosity at 122F (ASTM D-445) | Per sample | US\$ | 22.50 |
| 6) Kinematic Viscosity at 140F (ASTM D-445) | Per sample | US\$ | 22.50 |
| 7) Mercaptane Sulfur (ASTM D-3227) | Per sample | US\$ | 50.00 |
| 8) Pour Point (ASTM D-97) | Per sample | US\$ | 22.50 |
| 9) Reid Vapour Pressure at 100F (ASTM D-323) | Per sample | US\$ | 31.00 |
| 10) Specific Gravity at 60/60F (ASTM D-1298) | Per sample | US\$ | 13.00 |
| 11) Salt Content (as NaCl) (IP-77 Mod.) | Per sample | US\$ | 45.00 |
| 12) Total Sulfur (ASTM D-1551 Mod.) | Per sample | US\$ | 55.00 |
| 13) T.A.N./S.A.N. (ASTM D-664) | Per sample | US\$ | 55.00 |
| 14) Asphaltene Content (IP-143) | Per sample | US\$ | 65.00 |
| 15) Ash Content (ASTM D-482) | Per sample | US\$ | 27.50 |
| 16) Aromatic Content (UV Spectrometry) | Per sample | US\$ | 76.00 |
| 17) Basic Nitrogen (UOP 269-70T) | Per sample | US\$ | 49.00 |
| 18) C, H, N, O (Combustion) | Per sample | US\$ | 100.00 |
| 19) Characterization Factor, KUOP (UOP-375) | Per sample | US\$ | 22.50 |
| 20) Congealing Point of Pert.Wax (ASTM D-938) | Per sample | US\$ | 13.00 |
| 21) Conradson Carbon Residue (ASTM D-189) | Per sample | US\$ | 37.50 |
| 22) Light End Comp. Analysis (C1-C5) GC(IP-344/ASTM D-5134) | Per sample | US\$ | 180.00 |
| 23) Sediment Content (ASTM D-473) | Per sample | US\$ | 65.00 |
| 24) T.B.N. (ASTM D-2896) | Per sample | US\$ | 55.00 |
| 25) Total Nitrogen Content (ASTM D-3228) | Per sample | US\$ | 49.00 |
| 26) Vanadium and Nickel (ASTM D-5863 Mod.) | Per sample | US\$ | 30.00 |
| 27) Wax Content (Alcohol-Ether) | Per sample | US\$ | 100.00 |
| 28) Water and Sediment (ASTMD96) | Per sample | US\$ | 26.00 |
| 29) Water Content (ASTM D-4006) | Per sample | US\$ | 30.00 |
| b. Analysis Of Light Fractions (Mogas, Naphta, Solvent And Solar) | | | |
| 1) API Gravity at 60F (ASTM D-287) | Per sample | US\$ | 13.00 |
| 2) Hydrogen Sulfide (UOP-163) | Per sample | US\$ | 39.00 |
| 3) Mercaptane Sulfur (UOP 163) | Per sample | US\$ | 50.00 |
| 4) Octane Number | Per sample | US\$ | 50.00 |
| 5) F1-RON Clear (ASTM D-2699) | Per sample | US\$ | 82.00 |
| 6) F1-RON + 3cc TEL (ASTM D-2699) | Per sample | US\$ | 90.00 |
| 7) F2-RON Clear (ASTM D-2700) | Per sample | US\$ | 82.00 |
| 8) F2-RON + 3cc TEL (ASTM D-2700) | Per sample | US\$ | 90.00 |

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| 9) Refractive Index (Refractometer) | Per sample | US\$ | 13.00 |
| 10) Reid Vapour Pressure at 100F (ASTM D-323) | Per sample | US\$ | 31.00 |
| 11) Specific Gravity at 60/60F (ASTM D-1289) | Per sample | US\$ | 13.00 |
| 12) Total Sulfur, Lamp Method (ASTM D-1266) | Per sample | US\$ | 55.00 |
| 13) Doctor Test (IP-130) | Per sample | US\$ | 16.00 |
| 14) Existent Gum (ASTM D-381) | Per sample | US\$ | 37.50 |
| 15) TEL Content (IP-74 Mod.) | Per sample | US\$ | 37.50 |
| 16) Lead Content (ASTM D-2547) | Per sample | US\$ | 75.00 |
| 17) Copper Strip Corr. 3hrs. at 122F (ASTM D-130) | Per sample | US\$ | 27.50 |
| 18) Distillation (ASTM D-86) | Per sample | US\$ | 32.50 |
| 19) Colour Saybolt (ASTM D-156) | Per sample | US\$ | 13.00 |
| 20) Aromatic Content (ASTM D-1019) | Per sample | US\$ | 39.00 |
| 21) T.A.N./S.A.N. (ASTM D-664) | Per sample | US\$ | 55.00 |
| 22) Aniline Point (ASTM D-611) | Per sample | US\$ | 37.50 |
| 23) Flash Point, ABEL (IP-170) | Per sample | US\$ | 21.00 |
| 24) Aniline Gravity Product (ASTM D-611) | Per sample | US\$ | 13.00 |
| 25) Aniline Gravity Product (ASTM D-287) | Per sample | US\$ | 50.00 |
| 26) Oxidation Stability Test (ASTM D-525) | Per sample | US\$ | 65.00 |
| 27) Nitrogen Content (ASTM D-3228) | Per sample | US\$ | 49.00 |
| 28) Naphthene by Refr. Intercept (ASTM D-2159) | Per sample | US\$ | 76.00 |
| 29) Hydrocarbon type in Pert. Product (Paraffines, Naphthenes, Aromatic, Olefine) (ASTM D-1319) | Per sample | US\$ | 82.50 |
| 30) Hydrocarbon type in Pert. Av. Aniline Product (Paraffines, Naphthenes, Aromatics, Olefines) | Per sample | US\$ | 86.00 |
| 31) Fungus Contamination | Per sample | US\$ | 25.00 |
| 32) Total Bacteria | Per sample | US\$ | 25.00 |
| 33) Sulfate Reducing Bacteria (SRB) | Per sample | US\$ | 40.00 |
| 34) Odour | Per sample | US\$ | 8.00 |
| 35) Basic Nitrogen (UOP-269) | Per sample | US\$ | 49.00 |
| c. Analysis Of Medium Fractions (Kerosine, Avtur And Gasoil) | | | |
| 1) Specific Gravity at 60/60F (ASTM D-1298) | Per sample | US\$ | 13.00 |
| 2) API Gravity at 60F (ASTM D-287) | Per sample | US\$ | 13.00 |
| 3) Refractive Index (Refractometer) | Per sample | US\$ | 22.50 |
| 4) Freezing Point (ASTM D-2386) | Per sample | US\$ | 22.50 |
| 5) Smoke Point (IP-57) | Per sample | US\$ | 22.50 |

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| 6) Flash Point ABEL (IP-170) | Per sample | US\$ | 21.00 |
| 7) Flash Point PM.CC (ASTM-D93) | Per sample | US\$ | 21.00 |
| 8) Total Sulfur, Lamp Method (ASTM D-1266) | Per sample | US\$ | 55.00 |
| 9) Total Sulfur, Quartz Method (ASTM D-1551 Mod.) | Per sample | US\$ | 55.00 |
| 10) Aromatic Content (ASTM D-1319) | Per sample | US\$ | 39.00 |
| 11) Aniline Point (ASTM D-611) | Per sample | US\$ | 37.50 |
| 12) DoctorTest (IP-130) | Per sample | US\$ | 16.00 |
| 13) Mercaptane Sulfur (UOP-163) | Per sample | US\$ | 50.00 |
| 14) Copper Strip Corrosion (ASTM D-130) | Per sample | US\$ | 27.50 |
| 15) Silver Strip Corrosion (IP-227) | Per sample | US\$ | 32.50 |
| 16) Kinematic Viscosity at <85F (ASTM D-445) | Per sample | US\$ | 36.00 |
| 17) Kinematic Viscosity at >85F (ASTM D-445) | Per sample | US\$ | 22.50 |
| 18) Neutralization Value, TAN/SAN (ASTM D-664) | Per sample | US\$ | 55.00 |
| 19) CloudPoint (ASTM D-2500) | Per sample | US\$ | 22.50 |
| 20) Pour Point (ASTM D-97) | Per sample | US\$ | 22.50 |
| 21) Diesel Index (IP-21) | Per sample | US\$ | 50.50 |
| 22) Calculated Cetane Index (ASTM D-976) | Per sample | US\$ | 45.50 |
| 23) Cetane Number | Per sample | US\$ | 90.00 |
| 24) Olefinic plus aromatic hydrocarbon (ASTM D-1019) | Per sample | US\$ | 27.50 |
| 25) Appearance | Per sample | US\$ | 8.00 |
| 26) Conradson Carbon Residue, 120 Vol. Bottom Residue, %wt (ASTM D-189) | Per sample | US\$ | 37.50 |
| 27) Ash Content (ASTM D-482) | Per sample | US\$ | 27.50 |
| 28) Water Content (ASTM D-95) | Per sample | US\$ | 19.00 |
| 29) Colour Saybolt (ASTM D-156) | Per sample | US\$ | 13.00 |
| 30) Colour ASTM (ASTM D-1500) | Per sample | US\$ | 13.00 |
| 31) Distillation (ASTM D-86) | Per sample | US\$ | 32.50 |
| 32) Aniline Gravity Product (ASTM D-611) | Per sample | US\$ | 13.00 |
| 33) Aniline Gravity Product (ASTM D-287) | Per sample | US\$ | 50.00 |
| 34) Sediment Content (ASTM D-473) | Per sample | US\$ | 65.00 |
| 35) Water Reaction (ASTM D-1094) | Per sample | US\$ | 13.00 |
| 36) Colour Lovibond (IP-17) | Per sample | US\$ | 13.00 |
| 37) Bromine Number (ASTM D-159/IP-130) | Per sample | US\$ | 18.00 |
| 38) Water Content, by Karl Fischer (ASTM D-4377) | Per sample | US\$ | 40.00 |
| 39) Odour | Per sample | US\$ | 8.00 |
| 40) Existent Gum (steam jet) (ASTM D-381) | Per sample | US\$ | 37.50 |

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| 41) Heat of Combustion (net and gross) (ASTM D-240) | Per sample | US\$ | 91.00 |
| 42) TEL Content (IP-74 Mod.) | Per sample | US\$ | 32.50 |
| 43) Water & Sediment (ASTM D-1796) | Per sample | US\$ | 26.00 |
| d. Methyl Tertiary Butyl Ethanol (MTBE) | | | |
| 1) Purity of MTBE (% wt of MTBE, Methanol + Butane, TBA) (Gas Chromatography) | Per sample | US\$ | 180.00 |
| 2) Density at 15/4 (IP-190) | Per sample | US\$ | 22.50 |
| 3) Water Content (ASTM D-4377) | Per sample | US\$ | 40.00 |
| e. Methanol | | | |
| 1) Purity of Methanol % wt (ASTM E-346) | Per sample | US\$ | 60.00 |
| 2) Aceton and Aldehyde, wt% (ASTM E-346) | Per sample | US\$ | 32.50 |
| 3) Aceton, wt% (ASTM D-1612) | Per sample | US\$ | 22.50 |
| 4) Acidity as Acetic Acid, wt% (ASTM D-1613) | Per sample | US\$ | 50.00 |
| 5) Appearance | Per sample | US\$ | 8.00 |
| 6) Carbonisable Substance, APHA (ASTM E-346) | Per sample | US\$ | 22.50 |
| 7) Color, APHA (ASTM D-1209) | Per sample | US\$ | 20.00 |
| 8) Distillation Range (ASTM D-1078) | Per sample | US\$ | 32.50 |
| 9) Ethanol (Gas Chromatography) | Per sample | US\$ | 60.00 |
| 10) Hydrocarbons (ASTM E-1722) | Per sample | US\$ | 76.00 |
| 11) Non Volatile Content, gr/100mL (ASTM D-1353) | Per sample | US\$ | 35.00 |
| 12) Odour (ASTM D-1296) | Per sample | US\$ | 8.00 |
| 13) Permanganate Time (ASTM D-1363) | Per sample | US\$ | 20.00 |
| 14) Specific Gravity, at 20/20F (ASTM D-891) | Per sample | US\$ | 13.00 |
| 15) Total Iron Content (AAS) | Per sample | US\$ | 15.00 |
| 16) Water Content (ASTM D-1364) | Per sample | US\$ | 40.00 |
| 17) Chloride as Cl (MOHR) | Per sample | US\$ | 15.00 |
| f. Lubricating Oil | | | |
| 1) Specific Gravity at 60/60F (ASTM D-1298) | Per sample | US\$ | 13.00 |
| 2) API Gravity at 60F (ASTM D-287) | Per sample | US\$ | 13.00 |
| 3) Colour ASTM (ASTM D-1500) | Per sample | US\$ | 13.00 |
| 4) Kinematic Viscosity at 100F (ASTM D-445) | Per sample | US\$ | 22.50 |
| 5) Kinematic Viscosity at 210F (ASTM D-445) | Per sample | US\$ | 22.50 |
| 6) Viscosity Index (V.I) (IP-10) | Per sample | US\$ | 58.00 |
| 7) Viscosity at Low Temp. (CCS) (ASTM D-5293) | Per sample | US\$ | 55.00 |
| 8) Viscosity at High Temp.(HTHS) (ASTM D-4683) | Per sample | US\$ | 68.00 |

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| 9) Cloud Point (ASTM D-2500) | Per sample | US\$ | 22.50 |
| 10) Pour Point (ASTM D-97) | Per sample | US\$ | 22.50 |
| 11) Flash Point P.M.C.C. (ASTM D-93) | Per sample | US\$ | 21.00 |
| 12) Flash Point & Fire Point, C.O.C. (ASTM D-92) | Per sample | US\$ | 25.00 |
| 13) Aniline Point (ASTM D-611) | Per sample | US\$ | 37.50 |
| 14) Total Base Number (T.B.N.) (ASTM D-2896) | Per sample | US\$ | 55.00 |
| 15) T.A.N./S.A.N. (ASTM D-664) | Per sample | US\$ | 55.00 |
| 16) Conradson Carbon Residue (ASTM D-189) | Per sample | US\$ | 37.50 |
| 17) Ash Content (ASTM D-482) | Per sample | US\$ | 27.50 |
| 18) Water Content (ASTM D-95) | Per sample | US\$ | 19.00 |
| 19) Dilution of gasoline Engine Crankcase Oils (ASTM D-322) | Per sample | US\$ | 19.00 |
| 20) Diluent Content of Crankcase Oils (SMS-93) | Per sample | US\$ | 19.00 |
| 21) Sulfated Ash Content (ASTM D-874) | Per sample | US\$ | 37.50 |
| 22) In Soluble Content in Used Lube Oil (ASTM D-893) | Per sample | US\$ | 110.00 |
| 23) Foaming Tendency (ASTM D-892) | Per sample | US\$ | 55.00 |
| 24) Sulfur Content (ASTM D-1551 Mod.) | Per sample | US\$ | 55.00 |
| 25) Oxidation Characteristic (1000hrs) (ASTM D-943) | Per sample | US\$ | 2,440.00 |
| 26) Corrosive Sulfur | Per sample | US\$ | 30.00 |
| 27) Resistivity (Potentiometry) | Per sample | US\$ | 10.00 |
| 28) Electric Strength (Potentiometry) | Per sample | US\$ | 45.00 |
| 29) Calcium (AAS) (ASTM D-5863 Mod.) | Per sample | US\$ | 15.00 |
| 30) Barium (AAS) (ASTM D-5863 Mod.) | Per sample | US\$ | 15.00 |
| 31) Magnesium (AAS) (ASTM D-5863 Mod.) | Per sample | US\$ | 15.00 |
| 32) Zinc (AAS) (ASTM D-5863 Mod.) | Per sample | US\$ | 15.00 |
| 33) IR Spectro (IR Spectrometry) | Per sample | US\$ | 30.00 |
| 34) Phosphate (Vis-Spect.) | Per sample | US\$ | 30.00 |
| 35) Oil Content (Concawel/72 Mod. + GC) | Per sample | US\$ | 76.00 |
| g. Lubricating Grease | | | |
| 1) Cone Penetration (ASTM D-217) | Per sample | US\$ | 31.00 |
| 2) Worked Penetration (ASTM D-1403) | Per sample | US\$ | 37.50 |
| 3) Dropping Point (ASTM D-566) | Per sample | US\$ | 22.50 |
| 4) Water Content (ASTM D-95) | Per sample | US\$ | 19.00 |
| 5) Ash Content (ASTM D-482) | Per sample | US\$ | 27.50 |
| 6) Neutralization Value (TAN/SAN) (ASTM D-664) | Per sample | US\$ | 55.00 |

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| | 7) Analysis of Lubricating Grease (ASTM D-1228) | Per sample | US\$ | 127.50 |
| | 8) Oil Content (ConcaweI/72 Mod.) | Per sample | US\$ | 76.00 |
| h. | Paraffine Wax | | | |
| | 1) Specific Gravity, at 60/60F (ASTM D-1298) | Per sample | US\$ | 13.00 |
| | 2) Colour ASTM (ASTM D-1500) | Per sample | US\$ | 13.00 |
| | 3) Melting Point (ASTM D-87) | Per sample | US\$ | 27.50 |
| | 4) Congealing Point (ASTM D-938) | Per sample | US\$ | 13.00 |
| | 5) Penetration (ASTM D-1321) | Per sample | US\$ | 27.50 |
| | 6) Oil Content (ASTM D-721) | Per sample | US\$ | 60.00 |
| | 7) Flash Point, COC (ASTM D-92) | Per sample | US\$ | 25.00 |
| | 8) Refractive Index (Refractometry) | Per sample | US\$ | 13.00 |
| | 9) Nitrogen Content (ASTM D-3228) | Per sample | US\$ | 49.00 |
| | 10) Sulfur Content (ASTM D-1551 Mod.) | Per sample | US\$ | 55.00 |
| | 11) Conradson Carbon Residue (ASTM D-189) | Per sample | US\$ | 37.50 |
| i. | Bitumen And Asphalt | | | |
| | 1) Density or Relative Density (IP-190) | Per sample | US\$ | 22.50 |
| | 2) Penetration (ASTM D-5) | Per sample | US\$ | 27.50 |
| | 3) Loss on Heating (ASTM D-6) | Per sample | US\$ | 36.00 |
| | 4) Ductility (ASTM D-113) | Per sample | US\$ | 32.50 |
| | 5) Flash Point and Fire Point, C.O.C. (ASTM D-92) | Per sample | US\$ | 25.00 |
| | 6) Softening Point(R&B) (ASTM D-36) | Per sample | US\$ | 32.50 |
| | 7) Solubility in CS2 (ASTM D-4) | Per sample | US\$ | 55.00 |
| | 8) Asphalten Content (IP-143) | Per sample | US\$ | 65.00 |
| j. | Industrial Fuel Oil | | | |
| | 1) Specific Gravity at 60/60F (ASTM D-1298) | Per sample | US\$ | 13.00 |
| | 2) Kinematic Viscosity at 40F (ASTM D-445) | Per sample | US\$ | 22.50 |
| | 3) Asphalten Content (IP-143) | Per sample | US\$ | 65.00 |
| | 4) Sediment by Extraction (ASTM D-473) | Per sample | US\$ | 65.00 |
| | 5) Conradson Carbon Residue (ASTM D-189) | Per sample | US\$ | 32.50 |
| | 6) Flash Point (ASTM D-93) | Per sample | US\$ | 21.00 |
| k. | High Speed Diesel Fuel Oil (Hsd) | | | |
| | 1) Specific Gravity at 60/60F (ASTM D-1298) | Per sample | US\$ | 13.00 |
| | 2) Kinematic Viscosity at 100F, cSt (ASTM D-445) | Per sample | US\$ | 22.50 |

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| 3) Colour ASTM (ASTM D-1500) | Per sample | US\$ | 13.00 |
| 4) Cetane Number (ASTM D-613) | Per sample | US\$ | 90.00 |
| 5) Calculated Cetane Index (ASTM D-976) | Per sample | US\$ | 45.50 |
| 6) Cloud Point (ASTM D-2500) | Per sample | US\$ | 22.50 |
| 7) Pour Point (ASTM D-97) | Per sample | US\$ | 22.50 |
| 8) Sulfur Content, %wt (ASTM D-1551 Mod.) | Per sample | US\$ | 55.00 |
| 9) Copper Strip Corrosion (ASTM D-130) | Per sample | US\$ | 27.50 |
| 10) Conradson Carbon Residue (on 10% vol. Bottom), % wt (ASTM D-189) | Per sample | US\$ | 37.50 |
| 11) Water Content, %wt (ASTM D-95) | Per sample | US\$ | 19.00 |
| 12) Sediment Content, %wt (ASTM D-473) | Per sample | US\$ | 65.00 |
| 13) Ash Content, %wt (ASTM D-130) | Per sample | US\$ | 27.50 |
| 14) Neutralization Value (TAN/SAN) (ASTM D-664) | Per sample | US\$ | 55.00 |
| 15) Flash Point P.M.C.C, F (ASTM D-93) | Per sample | US\$ | 21.00 |
| 16) Distillation and Recovery at 300C (ASTM D-86) | Per sample | US\$ | 32.50 |
| I. Water Analysis | | | |
| 1) Oil Field Water (Complete Analysis) (API-Method) | Per sample | US\$ | 151.00 |
| 2) Crude Oil-Water Emulsion | Per sample | US\$ | 156.00 |
| 3) Oily Matter in Industrial Waste Water (ASTM D-1340) | Per sample | US\$ | 76.00 |
| 4) Industrial Water, Drinking Water | Per sample | US\$ | 132.50 |
| 5) Bacteriological Analysis (M.P.N.only) | Per sample | US\$ | 30.00 |
| 6) Individual Constituent/Analysis: | | | |
| a) Chlorine and Total Dissolved Solids | Per sample | US\$ | 36.00 |
| b) Loss on Ignition at 900C | Per sample | US\$ | 15.00 |
| c) Resistivity (Potentiometry) | Per sample | US\$ | 26.00 |
| d) Hydrogen Sulfide | Per sample | US\$ | 22.50 |
| e) pH | Per sample | US\$ | 8.00 |
| f) Specific Gravity | Per sample | US\$ | 13.00 |
| g) Sodium, Na (AAS) (ASTM D-4191) | Per sample | US\$ | 11.00 |
| h) Calcium, Ca (AAS) (ASTM D-511) | Per sample | US\$ | 11.00 |
| i) Magnesium, Mg (AAS) (ASTM D-511) | Per sample | US\$ | 11.00 |
| j) Iron, Fe (AAS) (ASTM D-1068) | Per sample | US\$ | 11.00 |
| k) EDTA Titration (Titrimetry) | Per sample | US\$ | 25.00 |
| l) Barium, Ba (AAS) (ASTM D-4382) | Per sample | US\$ | 11.00 |
| m) Arsenic, As (AAS) (ASTM D-2972) | Per sample | US\$ | 11.00 |
| n) Chloride | Per sample | US\$ | 8.00 |

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|---|------------|------|--------|
| o) Bicarbonate (Titrimetry) | Per sample | US\$ | 8.00 |
| p) Carbonate (Titrimetry) | Per sample | US\$ | 8.00 |
| q) Sulfide | Per sample | US\$ | 8.00 |
| r) Hydroxide (Titrimetry) | Per sample | US\$ | 8.00 |
| s) Sulfate (Gravimetry) | Per sample | US\$ | 15.00 |
| t) Nitrate (Spectrometry) | Per sample | US\$ | 15.00 |
| u) Silica (Spectrometry) (ASTM D-4517) | Per sample | US\$ | 19.00 |
| v) Biochemical Oxygen Demand (BOD) (API/APHA) | Per sample | US\$ | 100.00 |
| w) Chemical Oxygen Demand (C.O.D.) (API/APHA) | Per sample | US\$ | 50.00 |
| x) Dissolved Oxygen (D.O.) (BS/APHA) | Per sample | US\$ | 30.00 |
| y) Phenol (Spectrometry) | Per sample | US\$ | 30.00 |
| z) Amonium (Spectrometry) | Per sample | US\$ | 15.00 |
| aa) Per chlorate | Per sample | US\$ | 15.00 |
| bb) Sulfur Trioxide (Titrimetry) | Per sample | US\$ | 15.00 |
| cc) Insoluble Water (Gravimetry) | Per sample | US\$ | 15.00 |
| 7) Argentum/Silver/Ag (AAS) (ASTM D-3866) | Per sample | US\$ | 11.00 |
| 8) Ammonia, NH ₃ | Per sample | US\$ | 30.00 |
| 9) Phosphates, PO ₄ (ASTM D-1340) | Per sample | US\$ | 30.00 |
| 10) Floride (Spectrometry) | Per sample | US\$ | 30.00 |
| 11) Boron (Spectrometry) | Per sample | US\$ | 30.00 |
| 12) Strontium (AAS) (ASTM D-3352) | Per sample | US\$ | 11.00 |
| 13) Tin, Sn (AAS) (ASTM D-3920) | Per sample | US\$ | 11.00 |
| 14) Copper, Cu (AAS) (ASTM D-1688) | Per sample | US\$ | 11.00 |
| 15) Zinc, Zn (AAS) (ASTM D-1691) | Per sample | US\$ | 11.00 |
| 16) Lead, Pb (AAS) (ASTM D-3559) | Per sample | US\$ | 11.00 |
| 17) Iron, Fe (AAS) (ASTM D-1068) | Per sample | US\$ | 11.00 |
| 18) Chromium, Cr (AAS) (ASTM D-1687) | Per sample | US\$ | 11.00 |
| 19) Vanadium, V (AAS) (ASTM D-3352) | Per sample | US\$ | 11.00 |
| 20) Iodide (Spectrometry) | Per sample | US\$ | 15.00 |
| 21) Cyanide (Spectrometry) | Per sample | US\$ | 15.00 |
| 22) Molybdenum (AAS) (ASTM D-1687) | Per sample | US\$ | 11.00 |
| 23) Surface Tension | Per sample | US\$ | 15.00 |
| 24) Turbidity (Spectrometry) | Per sample | US\$ | 8.00 |
| 25) Miscibility With Water | Per sample | US\$ | 8.00 |
| 26) Corrosion Rate | Per sample | US\$ | 10.00 |
| 27) Boiling Point | Per sample | US\$ | 15.00 |
| 28) Titanium ICP Spectrometry | Per sample | US\$ | 20.00 |

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|-----|---|------------|------|--------|
| 29) | Aldehydes and Ketone (Spectrometry) | Per sample | US\$ | 30.00 |
| 30) | Polyethylene (Spectrometry) | Per sample | US\$ | 30.00 |
| 31) | Microba / Fungus Content | Per sample | US\$ | 50.00 |
| 32) | PCB | Per sample | US\$ | 100.00 |
| m. | Spring Water | | | |
| 1) | Ph (Potentiometry) | Per sample | US\$ | 8.00 |
| 2) | HCO ₃ (Titrimetry) | Per sample | US\$ | 8.00 |
| 3) | CO ₃ ²⁻ (Titrimetry) | Per sample | US\$ | 8.00 |
| 4) | Chloride, Cl (Titrimetry) | Per sample | US\$ | 8.00 |
| 5) | Sulfate (Gravimetry) | Per sample | US\$ | 15.00 |
| 6) | Litium (AAS) | Per sample | US\$ | 11.00 |
| 7) | Natrium, (AAS) (ASTM D-4191) | Per sample | US\$ | 11.00 |
| 8) | Potassium, K (AAS) (ASTM D-4192) | Per sample | US\$ | 11.00 |
| 9) | Calcium, Ca (AAS) (ASTM D-511) | Per sample | US\$ | 11.00 |
| 10) | Magnesium, Mg (AAS) (ASTM D-511) | Per sample | US\$ | 11.00 |
| 11) | Iron, Fe (AAS) (ASTM D-1068) | Per sample | US\$ | 11.00 |
| 12) | Boron, B (Spectrometry) | Per sample | US\$ | 30.00 |
| 13) | Bromide, Br (Spectrometry) | Per sample | US\$ | 30.00 |
| 14) | Fluoride (Spectrometry) | Per sample | US\$ | 30.00 |
| 15) | Cesium, Cs (AAS) | Per sample | US\$ | 11.00 |
| n. | Oil Field Water | | | |
| 1) | PH (Potentiometry) | Per sample | US\$ | 8.00 |
| 2) | Total Dissolved Solid (evap.) (Gravimetry or Calculation) | Per sample | US\$ | 35.00 |
| 3) | Resistivity (Conductivity) | Per sample | US\$ | 15.00 |
| 4) | Chloride (Mohr) | Per sample | US\$ | 15.00 |
| 5) | Bicarbonate (Titrimetry) | Per sample | US\$ | 8.00 |
| 6) | Sulfate (Gravimetry) | Per sample | US\$ | 15.00 |
| 7) | Carbonate (Titrimetry) | Per sample | US\$ | 8.00 |
| 8) | Hydroxide (Titrimetry) | Per sample | US\$ | 8.00 |
| 9) | Sodium, Na (Calculation) | Per sample | US\$ | 8.00 |
| 10) | Calcium (AAS) (ASTM D-511) | Per sample | US\$ | 11.00 |
| 11) | Magnesium, Mg (AAS) (ASTM D-511) | Per sample | US\$ | 11.00 |
| 12) | Iron, Fe (AAS) (ASTM D-1068) | Per sample | US\$ | 11.00 |
| 13) | Barium, Ba (AAS) (ASTM D-4382) | Per sample | US\$ | 11.00 |
| 14) | Hydrogen Sulfide (API-RP45) | Per sample | US\$ | 55.00 |
| o. | Waste Water | | | |
| 1) | Ph (Potentiometry) | Per sample | US\$ | 8.00 |
| 2) | Temperature | Per sample | US\$ | 8.00 |

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| 3) Oil Content & Grease (Concawel/72) | Per sample | US\$ | 76.00 |
| 4) Phenol (Standard Method) | Per sample | US\$ | 30.00 |
| 5) Biochemical Oxygen Demand(BOD) (API/APHA) | Per sample | US\$ | 100.00 |
| 6) Chemical Oxygen Demand (C.O.D.) (API/APHA) | Per sample | US\$ | 50.00 |
| 7) Dissolved Oxygen (D.O.) (BS/APHA) | Per sample | US\$ | 30.00 |
| 8) Total Dissolved Solid (Gravimetry) | Per sample | US\$ | 35.00 |
| 9) Total Suspended Solid (Gravimetry) | Per sample | US\$ | 30.00 |
| 10) Nitrite (NO ₂ -N) (Spectrometry) | Per sample | US\$ | 15.00 |
| 11) Nitrat, NO ₃ (ASTM D-3867) | Per sample | US\$ | 15.00 |
| 12) Mercury, Hg (CVAAS) (ASTM D-3223) | Per sample | US\$ | 20.00 |
| 13) Lead, Pb (AAS) (ASTM D-3559) | Per sample | US\$ | 15.00 |
| 14) Zinc, Zn (AAS) (ASTM D-1691) | Per sample | US\$ | 11.00 |
| 15) Nickel, Ni (AAS) (ASTM D-1886) | Per sample | US\$ | 11.00 |
| 16) Copper, Cu (AAS) (ASTM D-1688) | Per sample | US\$ | 11.00 |
| 17) Cadmium, Cd (AAS) (ASTM D-3557) | Per sample | US\$ | 11.00 |
| 18) Cobalt, Co (AAS) (ASTM D-3558) | Per sample | US\$ | 11.00 |
| 19) Mangan, Mn (AAS) (ASTM D-858) | Per sample | US\$ | 11.00 |
| 20) Chromium, Cr (AAS) (ASTM D-1687) | Per sample | US\$ | 11.00 |
| 21) Arsen, As (AAS) (ASTM D-2972) | Per sample | US\$ | 11.00 |
| 22) Silica, SiO ₂ (Spectrometry) | Per sample | US\$ | 15.00 |
| 23) Sulfide, S | Per sample | US\$ | 15.00 |
| 24) Cyanide (Spectrometry) | Per sample | US\$ | 15.00 |
| 25) Phosphate, PO ₄ ³⁻ (ASTM D-515) | Per sample | US\$ | 30.00 |
| 26) Amonia, NH ₃ (Spectrometry) | Per sample | US\$ | 15.00 |
| 27) Barium, Ba (AAS) (ASTM D-4382) | Per sample | US\$ | 11.00 |
| 28) Selenium, Se (AAS)(ASTM D-3859) | Per sample | US\$ | 11.00 |
| 29) Tin, Sn (AAS) (ASTM D-3920) | Per sample | US\$ | 11.00 |
| 30) Iron, Fe (AAS) (ASTM D-1068) | Per sample | US\$ | 11.00 |
| 31) Methyl Blue Active (Spectrometry) | Per sample | US\$ | 30.00 |
| 32) Free Chlorine (Spectrometry) | Per sample | US\$ | 15.00 |
| p. Water And Sediment | | | |
| 1) Polycyclic Aromatic Hydrocarbon (PAH) (Spectrofluorometry) | Per sample | US\$ | 100.00 |
| 2) Volatile Aromatic (Spectrofluorometry) | Per sample | US\$ | 76.00 |
| 3) Total Hydrocarbon/Total Petroleum Hydrocarbon (TPH) (Concawel/72) | Per sample | US\$ | 76.00 |
| 4) Phenols (UV/Vis. Spectrometry) | Per sample | US\$ | 30.00 |
| 5) Naphtenic Acids | Per sample | US\$ | 30.00 |

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| q. | Dispersant / Surfactant / Detergent | | | |
| | 1) Oil Content (CONCAWE) | Per sample | US\$ | 76.00 |
| | 2) Heavy Metals (AAS) (ASTM D-5863) | Per Metal | US\$ | 15.00 |
| | 3) Effectivity (Spectrometry) | Per sample | US\$ | 25.00 |
| | 4) Biodegradation Test (Spectrometry) | Per sample | US\$ | 100.00 |
| | 5) Ash Content (Gravimetry) | Per sample | US\$ | 21.00 |
| | 6) Standard EPA Toxicity Test | Per sample | US\$ | 1,500.00 |
| | 7) Modified EPA Toxicity Test (Lc50) | Per sample | US\$ | 750.00 |
| r. | Mud | | | |
| | 1) Oil Content (ConcaweI/72) | Per sample | US\$ | 76.00 |
| | 2) Water Content (Gravimetry) | Per sample | US\$ | 20.00 |
| | 3) Mercury, Hg (CVAAS) | Per sample | US\$ | 20.00 |
| | 4) Copper, Cu (AAS) (ASTM D-3974) | Per sample | US\$ | 15.00 |
| | 5) Cadmium, Cd (AAS) (ASTM D-3974) | Per sample | US\$ | 15.00 |
| | 6) Chromium, Cr (AAS) (ASTM D-3974) | Per sample | US\$ | 15.00 |
| | 7) Zinc, Zn (AAS) | Per sample | US\$ | 15.00 |
| | 8) Particle Size Distribution | Per sample | US\$ | 250.00 |
| s. | Cement | | | |
| | 1) Total Alkali (AAS) | Per sample | US\$ | 25.00 |
| | 2) Loss on Ignition (Gravimetry) | Per sample | US\$ | 15.00 |
| | 3) Insoluble Matter (Gravimetry) | Per sample | US\$ | 20.00 |
| | 4) SiliconOxide, SiO ₂ (Gravimetry) | Per sample | US\$ | 20.00 |
| | 5) Alumunium Oxide, Al ₂ O ₃ (AAS) (ASTM D-3974) | Per sample | US\$ | 15.00 |
| | 6) Ferric Oxide, Fe ₂ O ₃ (AAS) (ASTM D-3974) | Per sample | US\$ | 15.00 |
| | 7) Calcium Oxide, CaO (AAS) (ASTM D-3974) | Per sample | US\$ | 15.00 |
| | 8) Magnesium Oxide, MgO (AAS) (ASTM D-3974) | Per sample | US\$ | 15.00 |
| | 9) SulfurTrioxide, SO ₃ (Titrimetry) | Per sample | US\$ | 15.00 |
| t. | Catalyst | | | |
| | 1) Wet Screen Analysis (API Standard 13A) | Per sample | US\$ | 35.00 |
| | 2) Density App. Bulk Compacted Bulk (UOP 294-66) | Per sample | US\$ | 35.00 |
| | 3) Pore Volume | Per sample | US\$ | 100.00 |
| | 4) Specific Gravity | Per sample | US\$ | 13.00 |
| | 5) Porosity | Per sample | US\$ | 150.00 |
| | 6) Surface Area | Per sample | US\$ | 250.00 |
| | 7) IR Spectra / FTIR Spectrometry | Per sample | US\$ | 30.00 |
| u. | Tclp On Mud, Sludge, Asphalt, Spent Catalyst, Solid Waste Etc. | | | |

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| 1) | Metal in Original Sample (US EPA SW-846 Method 1311) | | | |
| a) | Arsen, As (AAS) | Per sample | US\$ | 15.00 |
| b) | Barium, Ba (AAS) | Per sample | US\$ | 15.00 |
| c) | Cadmium, Cd (AAS) | Per sample | US\$ | 15.00 |
| d) | Copper, Cu (AAS) | Per sample | US\$ | 15.00 |
| e) | Chromium, Cr (AAS) | Per sample | US\$ | 15.00 |
| f) | Nickel, Ni (AAS) | Per sample | US\$ | 15.00 |
| g) | Lead, Pb (AAS) | Per sample | US\$ | 15.00 |
| h) | Zinc, Zn (AAS) | Per sample | US\$ | 15.00 |
| i) | Mercury, Hg (AAS) | Per sample | US\$ | 15.00 |
| j) | Silver, Ag (AAS) | Per sample | US\$ | 15.00 |
| 2) | Metal in Extract, TCLP | | | |
| a) | Arsen, As (AAS) | Per sample | US\$ | 15.00 |
| b) | Barium, Ba (AAS) | Per sample | US\$ | 15.00 |
| c) | Cadmium, Cd (AAS) | Per sample | US\$ | 15.00 |
| d) | Copper, Cu (AAS) | Per sample | US\$ | 15.00 |
| e) | Chromium, Cr (AAS) | Per sample | US\$ | 15.00 |
| f) | Nickel, Ni (AAS) | Per sample | US\$ | 15.00 |
| g) | Lead, Pb (AAS) | Per sample | US\$ | 15.00 |
| h) | Zinc, Zn (AAS) | Per sample | US\$ | 15.00 |
| i) | Mercury, Hg (AAS) | Per sample | US\$ | 15.00 |
| j) | Silver, Ag (AAS) | Per sample | US\$ | 15.00 |
| v. | Barite | | | |
| 1) | Specific Gravity | Per sample | US\$ | 22.50 |
| 2) | Wet Screen Analysis | | | |
| a) | Residue on US Sieve 200 | Per sample | US\$ | 30.00 |
| b) | Residue on US Sieve 325 | Per sample | US\$ | 30.00 |
| 3) | Alkaline Earth Ca | Per sample | US\$ | 15.00 |
| w. | Bentonite | | | |
| 1) | Suspension Properties | Per sample | US\$ | 30.00 |
| 2) | Wet Screen Analysis | Per sample | US\$ | 30.00 |
| 3) | Moisture | Per sample | US\$ | 15.00 |
| x. | Crude Oil Evaluation | | | |
| 1) | Basic Analysis of Crude Oil (Include. General Characteristic, Hempel Dist. And Classification) | Per sample | US\$ | 2,500.00 |
| 2) | Type A Rapid Analysis of Crude Oil | Per sample | US\$ | 2,500.00 |
| 3) | Type B Simplified Analysis of Crude Oil | Per sample | US\$ | 5,800.00 |
| 4) | Type C Detailed Analysis of Crude Oil | Per sample | US\$ | 25,000.00 |

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| 5) Others | | | |
| a) True Boiling Point (TBP) Distillation | Per sample | US\$ | 1,800.00 |
| b) Hempell Distillation | Per sample | US\$ | 700.00 |
| c) Dehydration of Crude Oil by Hetero-azeotropic Distillation | Per sample | US\$ | 50.00 |
| d) Dehydration of Crude Oil by Demulsifier Treatment | Per sample | US\$ | 35.00 |
| e) Crude Oil Blending | Per blending | US\$ | 30.00 |
| y. Finger Prints Of Crude Oils | | | |
| 1) Pristane / Phytane Ratio (Gas Chromatography) | Per sample | US\$ | 200.00 |
| 2) Determination of Functional Group (IR Spectrometry) | Per sample | US\$ | 76.00 |
| 3) Vanadium / Nickel Ratio (AAS) | Per sample | US\$ | 30.00 |
| 4) Sulfur Content (ASTM D-1551 Mod.) | Per sample | US\$ | 55.00 |
| 5) Specific Gravity (ASTM D-1298) | Per sample | US\$ | 13.00 |
| 6) Aromatic and Paraffinic Fraction (Gravimetry) | Per sample | US\$ | 76.00 |
| 7) Heavy Residual Fraction (by Calculation) | Per sample | US\$ | 8.00 |
| Z. Gas Chromatography Analysis | | | |
| 1) Routine Gas Analysis C ₁ -C ₇ + H ₂ S + N ₂ , CO, O ₂ , H ₂) | Per sample | US\$ | 180.00 |
| 2) Gas Gravity (Measured) (IP-59/C) | Per sample | US\$ | 99.00 |
| 3) Heating Value | Per sample | US\$ | 27.50 |
| 4) Moisture/ Dew Point (Gravimetry) | Per sample | US\$ | 25.00 |
| 5) Mercaptane Sulfur (ASTM D-2385) | Per sample | US\$ | 55.00 |
| 6) Hydrogen Sulfide (ASTM D-2385) | Per sample | US\$ | 55.00 |
| 7) Carbonyl Sulfide (UOP-212) | Per sample | US\$ | 55.00 |
| 8) Impurities of Gas (Argon, Oxygen) | Per sample | US\$ | 100.00 |
| 9) Crude Rum/ Methanol (N-Propanol, i-Butanol, i-Amyl alcohol) | Per sample | US\$ | 59.00 |
| 10) Compositional Analysis for Crude Oil: | | | |
| a) C1 - C12 | Per sample | US\$ | 300.00 |
| b) C1 to C22 | Per sample | US\$ | 350.00 |
| c) C1 to C30 | Per sample | US\$ | 400.00 |
| d) Compositional Analysis for Saturated Fraction C10 - C40 | Per sample | US\$ | 200.00 |
| e) Carbon Tetra Chloride | Per sample | US\$ | 50.00 |
| aa. Atomic Absorption Spectrophotometry Analysis | | | |
| 1) Sample Preparation by Extraction and Ashing (Such as Fe, Co, Ni, Cu, Cr, Al, Ba, V in Heavy Petroleum Productor Minerals) per | Per unsur | US\$ | 18.00 |

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| Unsur | | | |
| 2) Sample Preparation by Extraction (Such as Fe, Co, Ni, Cu, Cr, Al, Ba, V in Light Petroleum Product and Water/Aqua Solution) per Unsur | Per unsur | US\$ | 15.00 |
| 3) Sample Preparation by Extraction (only for Pb in Light Petroleum Product) | Per sample | US\$ | 54.00 |
| 4) Without sample preparation or water sample | Per sample | US\$ | 11.00 |
| bb. Atomic Emission Spectrophotometry Analysis | | | |
| 1) Alkaline Metals (Such as Na,K,Li,etc.) per Unsur | Per sample | US\$ | 9.00 |
| 2) I.C.P.S.(Induced Couplet Plasma) (such as Ba, Li, Sr, etc.) per Unsur | Per sample | US\$ | 20.00 |
| cc. Liquid Chromatography Analysis | | | |
| 1) Complete Analysis of hydrocarbon | Per sample | US\$ | 135.00 |
| 2) Hydrocarbon Saturated Only | Per sample | US\$ | 100.00 |
| 3) Hydrocarbon Aromatic Only | Per sample | US\$ | 125.00 |
| 4) Hydrocarbon Heavy Product Only | Per sample | US\$ | 125.00 |
| dd. Infra Red Spectrophotometry Analysis | | | |
| 1) Running | Per sample | US\$ | 30.00 |
| 2) Oil Content | Per sample | US\$ | 76.00 |
| 3) Ethylene Oxide | Per sample | US\$ | 50.00 |
| 4) Paraffine + Naphthene + Aromat | Per sample | US\$ | 100.00 |
| ee. Ultraviolet/Visible Spectrophotometry Analysis | | | |
| 1) Mono-, Di- and Poly-aromatic, Total | Per sample | US\$ | 135.00 |
| 2) Phosphate | Per sample | US\$ | 30.00 |
| 3) Metals (such as V, Ni), per Unsur | Per sample | US\$ | 15.00 |
| 4) Chrom Hexavalent | Per sample | US\$ | 25.00 |
| 5) Methylene Blue Active | Per sample | US\$ | 25.00 |
| 6) Toluene | Per sample | US\$ | 30.00 |
| 7) Diolefine Index | Per sample | US\$ | 30.00 |
| 8) Ultra Violet Radiation | Per sample | US\$ | 30.00 |
| 9) Chlorophyl | Per sample | US\$ | 25.00 |
| 10) Fluoride | Per sample | US\$ | 30.00 |
| 11) Bromide | Per sample | US\$ | 30.00 |
| 12) Ammonium | Per sample | US\$ | 30.00 |
| 13) Polyaromatic | Per sample | US\$ | 125.00 |
| 14) Spectra Synchronous | Per sample | US\$ | 50.00 |
| 15) Oil Content | Per sample | US\$ | 76.00 |

| | | | |
|--|------------|------|--------|
| ff. Biotechnology Analysis | | | |
| 1) Sulfate Reducing Bacteria (ATCC-7757) | Per sample | US\$ | 40.00 |
| 2) Sulfur Oxidizing Bacteria (SOB) (Plate Count) | Per sample | US\$ | 15.00 |
| 3) Total Plate Count (Plate Count) | Per sample | US\$ | 10.00 |
| 4) Identification and Determination of: | | US\$ | |
| a) Bacteria (Microscopy & Biochemistry) | Per sample | US\$ | 25.00 |
| b) Fungi (Microscopy & Visual) | Per sample | US\$ | 12.00 |
| 5) Biodegradation Crude Oil (Composition by Gas Chromatography) | Per sample | US\$ | 100.00 |
| 6) Biodegradation Surfactant (Spectroscopy) | Per sample | US\$ | 30.00 |
| 7) Scale Inhibitor (Boil by Autoclave) | Per sample | US\$ | 60.00 |
| 8) Coliform Inhibitor Corrosion (Coupon Test) | Per sample | US\$ | 50.00 |
| 9) Coliform Group (MPN) | Per sample | US\$ | 20.00 |
| 10) Salinity Shell Water Detector (Water Content Test) | Per sample | US\$ | 40.00 |
| 11) Viscosity (Viscometer) | Per sample | US\$ | 17.50 |
| 12) C, H, N (Unsurtary Analyzer) | Per sample | US\$ | 100.00 |
| 13) BiocorrossionTest (Corrosometer) | Per sample | US\$ | 150.00 |
| 14) LC ₅₀ (Toxicity) | Per sample | US\$ | 750.00 |
| 15) Corrosion Rate | Per sample | US\$ | 27.50 |
| 16) Salmonella (Incubation) | Per sample | US\$ | 22.50 |
| 17) Benthos (Microscopy) | Per sample | US\$ | 17.50 |
| 18) Plankton (Microscopy) | Per sample | US\$ | 22.50 |
| 19) Salinity (Titrimetry) | Per sample | US\$ | 15.00 |
| 20) Analysis of Legionella (Population, Identification and Determination) | Per sample | US\$ | 180.00 |
| gg. Sampling | | | |
| 1) Personal Charge (One-Man-Job) inside Java (excluded board and lodging) | Per hari | US\$ | 300.00 |
| 2) Personal Charge (One-Man-Job) Outside Java (excluded board and lodging) | Per hari | US\$ | 400.00 |
| hh. Others Properties | | | |
| 1) Total Solids | Per sample | US\$ | 27.50 |
| 2) Silica | Per sample | US\$ | 19.00 |
| 3) Cleaning Ability for (Carbon, Dust, Grease, Oil) | Per sample | US\$ | 20.00 |
| 4) Effect to Insulator (Plastic, Rubber, Varnish, Removal Point) | Per sample | US\$ | 25.00 |
| 5) Residue (Moisture/Water) | Per sample | US\$ | 25.00 |
| 6) Rheology Properties | Per sample | US\$ | 85.00 |

| | | | |
|---|------------|------|--------|
| 7) Aromatic Content | Per sample | US\$ | 39.00 |
| 8) Chlorine Content (Titrimetry) | Per sample | US\$ | 45.00 |
| 9) Sieve Analysis | Per sample | US\$ | 15.00 |
| 10) Residue (API Spec.13A) | Per sample | US\$ | 30.00 |
| 11) Bio degradability | Per sample | US\$ | 100.00 |
| 12) Analysis of Polymer (Polymer Concentration) | Per sample | US\$ | 90.00 |

4. APLIKASI

a. Gasoline

| | | | |
|---|------------|------|-------|
| 1) Copper Strip Corrosion (3 hrs/100C) (ASTM D 130) | Per sample | US\$ | 27.50 |
| 2) Distillation (ASTM D-86) | Per sample | US\$ | 32.50 |
| 3) Doctor Test (IP 130) | Per sample | US\$ | 16.00 |
| 4) Existent Gum (ASTM D-381) | Per sample | US\$ | 37.50 |
| 5) Lead Content (ASTM D-3341) | Per sample | US\$ | 75.00 |
| 6) Mercaptane Sulphur (ASTM D-3327) | Per sample | US\$ | 50.00 |
| 7) Octane Number | | | |
| a) F1 - RON Clear (ASTM D-2699) | Per sample | US\$ | 82.00 |
| b) F1 - RON + 3 cc TEL (ASTM D-2700) | Per sample | US\$ | 90.00 |
| c) F2 - MON Clear (ASTM D-2700) | Per sample | US\$ | 82.00 |
| d) F2 - MON + 3 cc TEL (ASTM D-2700) | Per sample | US\$ | 90.00 |
| 8) Reid Vapour Pressure at 100F (ASTM D-323) | Per sample | US\$ | 31.00 |
| 9) Specific Gravity at 60/60F (ASTM D-1298) | Per sample | US\$ | 13.00 |
| 10) Aromatic Content (ASTM D-1319) | Per sample | US\$ | 39.00 |
| 11) Sulfur Content (ASTM D-1266) | Per sample | US\$ | 55.00 |

b. Diesel fuel

| | | | |
|---|------------|------|-------|
| 1) Ash Content (ASTM D-482) | Per sample | US\$ | 27.50 |
| 2) Cetane Number (ASTM D-613) | Per sample | US\$ | 90.00 |
| 3) Calculated Cetane Index (ASTM D-976) | Per sample | US\$ | 50.50 |
| 4) Color ASTM (ASTM D-1500) | Per sample | US\$ | 13.00 |
| 5) Conradson Carbon Residue (ASTM D-189) | Per sample | US\$ | 21.00 |
| 6) Copper Strio Corrosion (3 hrs/100C) (ASTM D-130) | Per sample | US\$ | 37.50 |
| 7) Distillation (ASTM D-89) | Per sample | US\$ | 32.50 |
| 8) Flash Point P.M.C.C. (ASTM D-93) | Per sample | US\$ | 21.00 |
| 9) Pour Point (ASTM D-97) | Per sample | US\$ | 22.50 |

| | | | |
|---|------------|------|----------|
| 10) Sediment Content (ASTM D-473) | Per sample | US\$ | 65.00 |
| 11) Specific Gravity, at 60/60F (ASTM D-1298) | Per sample | US\$ | 13.00 |
| 12) Sulfur Content (ASTM D-1551 Mod.) | Per sample | US\$ | 55.00 |
| 13) Strong Acid Number (ASTM D-974) | Per sample | US\$ | 55.00 |
| 14) Viscosity Kinematic at 100F (ASTM D-445) | Per sample | US\$ | 22.50 |
| 15) Water Content (ASTM D-95) | Per sample | US\$ | 19.00 |
| 16) Diesel Oil Lubricity (HFRR) (ASTM D-6079) | Per sample | US\$ | 175.00 |
| c. Chassis Dynamometer Test | | | |
| 1) Consumption Test | Per sample | US\$ | 150.00 |
| 2) Power Test | Per sample | US\$ | 150.00 |
| 3) Emission Test | Per sample | US\$ | 150.00 |
| d. Multi Cylinder Test (Isuzu Panther Engine 1994) | | | |
| 1) Endurance Test, 250 hrs (8 week) (Include. Gasoline and Diesel Fuel Characteristic/ Specification Test, Performance Test), 8 weeks | Per sample | US\$ | 3,500.00 |
| 2) Performance Test | Per sample | US\$ | 450.00 |
| e. Lubricant | | | |
| 1) Specific Gravity 15/4C (ASTM D-1298) | Per sample | US\$ | 13.00 |
| 2) Kinematic Viscosity at 40C (ASTM D-445) | Per sample | US\$ | 22.50 |
| 3) Kinematic Viscosity at 100C (ASTM D-445) | Per sample | US\$ | 22.50 |
| 4) Viscosity Index (V.I.) (ASTM D-2270) | Per sample | US\$ | 58.00 |
| 5) Viscosity at Low Temperature (CCS) (ASTM D-5293) | Per sample | US\$ | 55.00 |
| 6) Viscosity at High Temperature (HTHS) (ASTM D-4683) | Per sample | US\$ | 68.00 |
| 7) Flash Point COC (ASTM D-92) | Per sample | US\$ | 25.00 |
| 8) Flash Point P.M.C.C (ASTM D-93) | Per sample | US\$ | 21.00 |
| 9) Pour Point (ASTM D-97) | Per sample | US\$ | 22.50 |
| 10) Total Base Number (TBN) (ASTM D-2896) | Per sample | US\$ | 55.00 |
| 11) Total Acid Number (TAN / SAN) (ASTM D-664) | Per sample | US\$ | 55.00 |
| 12) Metal Content (per metal) (AAS/ASTM D-811/X-Ray) | Per sample | US\$ | 15.00 |
| 13) Foaming Tendency (ASTM D-892) | Per sample | US\$ | 55.00 |
| 14) Dropping Point (ASTM D-566) | Per sample | US\$ | 22.50 |
| 15) Cone Penetration (ASTM D-217) | Per sample | US\$ | 31.00 |
| 16) Worked Penetration (ASTM D-1403) | Per sample | US\$ | 37.50 |

| | | | |
|---|------------|------|----------|
| 17) Color (ASTM D-1500) | Per sample | US\$ | 13.00 |
| 18) Sulfated Ash Content (ASTM D-874) | Per sample | US\$ | 37.50 |
| 19) Sulfur Content (ASTM D-1551 Mod.) | Per sample | US\$ | 55.00 |
| 20) Phosphor Content (X-Ray) | Per sample | US\$ | 39.50 |
| 21) Nitrogen Content (ASTM D-3228) | Per sample | US\$ | 55.00 |
| 22) Oil Mineral Content (Concawe I/72 Mod. + GC) | Per sample | US\$ | 91.50 |
| 23) Copper Strip Corrosion (3 hrs/100C) (ASTM D-130) | Per sample | US\$ | 27.50 |
| 24) Dielectric Breakdown Voltage (ASTM D-877) | Per sample | US\$ | 41.50 |
| 25) Characteristic of Corrosion and Oxidation (Performance Test) (CRC-L-38) | Per sample | US\$ | 9,250.00 |
| 26) Shear Stability (ASTM D-2603) | Per sample | US\$ | 300.00 |
| 27) Extreme Pressure (Four Ball) (ASTM D-2783) | Per sample | US\$ | 300.00 |
| 28) Extreme Pressure (FZG) (CEC-L-07-A-71) | Per sample | US\$ | 1,250.00 |

5. TEKNOGAS

a. NATURAL GAS

| | | | |
|--|-------------|------|--------|
| 1) Gas Composition (GPS-2261) C ₁ C ₆ +, CO ₂ , N ₂ plus physical properties | Per sample | US\$ | 180.00 |
| 2) Gas Composition (GPS-2261) | | | |
| a) Hg | Per sample | US\$ | 55.00 |
| b) e | Per sample | US\$ | 54.00 |
| c) Pb | Per sample | US\$ | 54.00 |
| d) Zn | Per sample | US\$ | 54.00 |
| e) Na | Per sample | US\$ | 55.00 |
| 3) Sulphur Contents: | | | |
| a) H ₂ S (ASTM D 2385) | Per sample | US\$ | 55.00 |
| b) RSH (ASTM D 2385) | Per sample | US\$ | 55.00 |
| c) COS (UOP 212) | Per sample | US\$ | 55.00 |
| 4) HC Composition of C7-C14 (GPA 2261) | Per sample | US\$ | 180.00 |
| 5) Water Content (ASTM D 1142) | Per sample | US\$ | 100.00 |
| 6) Ambient Gas (Drager Tube), (H ₂ S, CO ₂ , CO, NH ₃ , SO ₂ , Water Vapour, Chlorine, Mercaptane, Benzene, Ozone) | Per senyawa | US\$ | 55.00 |

b. ISOTOP

| | | | | |
|------------------------------|--|-------------|------|--------|
| 1) | Carbon Isotope of Natural Gas (GC-IRMS): (CH ₄ , C ₂ H ₆ , C ₃ H ₈ , i-C ₄ H ₁₀ , n-C ₄ H ₁₀ , CO ₂) | Per senyawa | US\$ | 100.00 |
| 2) | Isotope of Solid/Liquid/Powder (EA-IRMS): (Carbon, Nitrogen, Oxygen) | Per senyawa | US\$ | 50.00 |
| 3) | Isotope of Water (Duel Inlet-IRMS) (Deuterium, Oxygen) | Per senyawa | US\$ | 50.00 |
| c. LPG | | | | |
| 1) | HC Composition & Physical Properties (GC) | Per sample | US\$ | 180.00 |
| 2) | Total Sulphur | Per sample | US\$ | 110.00 |
| 3) | Water Content | Per sample | US\$ | 100.00 |
| 4) | Copper Strip Corrosion | Per sample | US\$ | 55.00 |
| 5) | Weathering Test | Per sample | US\$ | 26.00 |
| 6) | Vapour Pressure | Per sample | US\$ | 62.00 |
| 7) | Specific Gravity | Per sample | US\$ | 26.00 |
| 8) | Volatility | Per sample | US\$ | 45.00 |
| 9) | Residue in LPG | Per sample | US\$ | 40.00 |
| d. | GAS SAMPLING | Per hari | US\$ | 400.00 |
| e. OTHER INSTRUMENTATION | | | | |
| 1) | Determination of functional group on HC sample (FTIR). (gas, liquid, solid) | Per sample | US\$ | 25.00 |
| 2) | Determination of molecular markers and molecular structure identification from Petroleum Geology/Geochemistry (GC-MSDS) | Per sample | US\$ | 180.00 |
| 3) | Determination of Chemical Coordination (complex compounds) Aromatic & aliphatic in oil/liquid samples (UV-VIS) | Per sample | US\$ | 30.00 |
| f. CORROSION TEST LABORATORY | | | | |
| 1) | Laboratorium Jasa Pengujian | | | |
| a) | Salt spray (fog) testing for simulates plant environment corrosion condition for several material using salt solution, 96 hours period of test, 1-5 coupon (s) each test (ASTM B 117) | Per uji | US\$ | 971.00 |
| b) | Modified salt spray (fog) testing for simulates plant environmental corrosion condition for several material using substitute ocean water, 96 hours period of test, 1-5 coupon(s) each test (ASTM | Per uji | US\$ | 980.00 |

| | | | | |
|----|---|----------|------|----------|
| | G 85 & ASTM D 1141) | | | |
| c) | Copper accelerated sactic acid-salt spray (fog) testing (CASS Testing), 96 hours period of test, 1-5 coupon(s) each test (ASTM B 386) | Per uji | US\$ | 979.00 |
| d) | Laboratory corrosion testing of metal in any mediums/fluids using immersion method (Kettle Test), using synthetic brine water bubbled with CO2 gas; 7 days period of test; corrosion rates provided by both of LPR/ER probes and weight lose method (NACE TM 169 & ASTM G 31) | Per uji | US\$ | 2,587.00 |
| e) | Chemical compatibility test for inhibitor | Per uji | US\$ | 134.00 |
| f) | Emulsion tendency test for inhibitor | Per uji | US\$ | 182.00 |
| g) | Foaming tendency & stability test for inhibitor | Per uji | US\$ | 119.00 |
| h) | Rack gunking test for inhibitor | Per uji | US\$ | 191.00 |
| i) | Jet impingement test for inhibitor | Per uji | US\$ | 1,766.00 |
| j) | Thermal stability test for inhibitor | Per uji | US\$ | 1,747.00 |
| k) | Corrosion coupon processing from fields (NACE RP 775) | Per uji | US\$ | 180.00 |
| 2) | Inspeksi Lapangan dan Monitoring | | | |
| a) | Inspection of pipe/vessel/tank coating holiHarris (NACE RP 188) | Per hari | US\$ | 375.00 |
| b) | Measurement of coating thickness of metal or non metal surfaces (ASTM D 1186) | Per hari | US\$ | 370.00 |
| c) | Inspection of existing pipe/vessel/tank coating defects | Per hari | US\$ | 376.00 |
| d) | Inspection of wall thickness (tank/vessel/pipe) using B-scanning System TMI 150 (API 653) | Per hari | US\$ | 996.00 |
| e) | Inspection of wall thickness (tank/vessel/pipe) using T SCOPE DL (API 653) | Per hari | US\$ | 654.00 |
| f) | Flaw detection of metal using EPOCH III (API 653) | Per hari | US\$ | 706.00 |
| g) | Routine cathodic protection reading on Test Post (NACE RP 169) | Per hari | US\$ | 370.00 |
| h) | Close Potential Logging (CPL) for cathodic protection (NACE RP 792) | Per hari | US\$ | 687.00 |
| i) | Interference testing of cathodic protection system (NACE RP 169) | Per hari | US\$ | 384.00 |
| j) | Insulating joint inspection of pipe lines | Per hari | US\$ | 98.00 |

| | | | | |
|----|--|-----------|------|--------|
| | (NACE RP 286) | | | |
| | k) Field measurement of soil resistivity (ASTM G 57) | Per hari | US\$ | 376.00 |
| | l) Soil pH measurement (ASTM G 51) | Per hari | US\$ | 401.00 |
| | m) Soil salinity, conductivity and temperature measurement | Per hari | US\$ | 372.00 |
| | n) Potential soil gradient measurement | Per hari | US\$ | 384.00 |
| | o) Field corrosion rate measurement with Corrosometer | Per titik | US\$ | 98.00 |
| | p) Pipes and cables location | Per hari | US\$ | 377.00 |
| g. | Laboratorium Uji Silinder | | | |
| | 1) Cylinder test for NGV's (AS 2337.1/AS 2030.1) | Per uji | US\$ | 25.00 |
| | 2) Plastometer (ISO R 1133/ASTM D 1238/SII-0573-81) | Per uji | US\$ | 25.00 |
| | 3) Tensile (ASTM D 638M/SII-0431-81/ISO-1167/ISO/DIS 6259) | Per uji | US\$ | 25.00 |
| | 4) Hot Stage Microscope (ASTM D 789 / ASTM D 2117) | Per uji | US\$ | 25.00 |
| | 5) Hot Bench | Per uji | US\$ | 25.00 |
| | 6) Volatility (ISO 4437) | Per uji | US\$ | 55.00 |
| | 7) Heat Reversion (ISO 2505/1, ISO 2502/2) | Per uji | US\$ | 55.00 |
| | 8) Hardness | Per uji | US\$ | 35.00 |
| | 9) Diaphragm Flow Meter (NIST 38126) | Per uji | US\$ | 35.00 |
| | 10) Wet Test Meter (ASTM E95 / D 1071-78a) | Per uji | US\$ | 25.00 |
| | 11) Dead Weight Tester (NIST 38126) | Per uji | US\$ | 25.00 |

| | | | |
|--|---|------------|--------------|
| B. Pusat Penelitian Dan Pengembangan Teknologi Mineral Dan Batubara | | | |
| 1. ANALISIS DAN PENGUJIAN MINERAL | | | |
| a. JASA PREPARASI | | | |
| | 1) Batuan Sedimen | Per sample | Rp 50.000,00 |
| | 2) Batuan Beku | Per sample | Rp 50.000,00 |
| | 3) Batuan Metamorf | Per sample | Rp 50.000,00 |
| b. JASA ANALISIS KIMIA | | | |
| 1) BATU GAMPING | | | |
| | a) CaO total (Kompleksometri/Volumetri) | Per sample | Rp 20.000,00 |
| | b) CaO bebas (Volumetri) | Per sample | Rp 30.000,00 |
| | c) MgO (Kompleksometri/Volumetri) | Per sample | Rp 20.000,00 |

| | | | |
|---|------------|----|-----------|
| d) MgO (AAS) | Per sample | Rp | 15.000,00 |
| e) LOI (Gravimetri) | Per sample | Rp | 12.000,00 |
| f) Bagian tidak larut dalam Asam/HCl (Gravimetri) | Per sample | Rp | 12.000,00 |
| g) SiO ₂ (Gravimetri) | Per sample | Rp | 25.000,00 |
| h) Fe ₂ O ₃ (AAS) | Per sample | Rp | 12.000,00 |
| i) Al ₂ O ₃ (AAS) | Per sample | Rp | 20.000,00 |
| j) K ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| k) Na ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| l) P ₂ O ₅ (Spektrofotometri) | Per sample | Rp | 20.000,00 |
| m) SO ₃ (Turbidimetri) | Per sample | Rp | 20.000,00 |
| n) SO ₃ (Gravimetri) | Per sample | Rp | 25.000,00 |
| o) Cl ⁻ (Volumetri) | Per sample | Rp | 20.000,00 |
| p) H ₂ O | Per sample | Rp | 10.000,00 |
| 2) KALSIT | | | |
| a) CaO total (Kompleksometri/Volumetri) | Per sample | Rp | 20.000,00 |
| b) CaO bebas (Volumetri) | Per sample | Rp | 30.000,00 |
| c) MgO (Kompleksometri/Volumetri) | Per sample | Rp | 20.000,00 |
| d) MgO (AAS) | Per sample | Rp | 15.000,00 |
| e) LOI (Gravimetri) | Per sample | Rp | 12.000,00 |
| f) Bagian tidak larut dalam Asam / HCl (Gravimetri) | Per sample | Rp | 12.000,00 |
| g) SiO ₂ (Gravimetri) | Per sample | Rp | 25.000,00 |
| h) Fe ₂ O ₃ (AAS) | Per sample | Rp | 12.000,00 |
| i) Al ₂ O ₃ (AAS) | Per sample | Rp | 20.000,00 |
| j) K ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| k) Na ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| l) P ₂ O ₅ (Spektrofotometri) | Per sample | Rp | 20.000,00 |
| m) SO ₃ (Turbidimetri) | Per sample | Rp | 20.000,00 |
| n) SO ₃ (Gravimetri) | Per sample | Rp | 25.000,00 |
| o) Cl ⁻ (Volumetri) | Per sample | Rp | 20.000,00 |
| p) H ₂ O | Per sample | Rp | 10.000,00 |
| 3) DOLOMIT | | | |
| a) CaO total (Kompleksometri/Volumetri) | Per sample | Rp | 20.000,00 |
| b) MgO (Kompleksometri/Volumetri) | Per sample | Rp | 30.000,00 |
| c) CaO bebas (Volumetri) | Per sample | Rp | 20.000,00 |
| d) MgO (AAS) | Per sample | Rp | 15.000,00 |
| e) LOI (Gravimetri) | Per sample | Rp | 12.000,00 |
| f) Bagian tidak larut dalam Asam/HCl (Gravimetri) | Per sample | Rp | 12.000,00 |
| g) SiO ₂ (Gravimetri) | Per sample | Rp | 25.000,00 |
| h) Fe ₂ O ₃ (AAS) | Per sample | Rp | 12.000,00 |
| i) Al ₂ O ₃ (AAS) | Per sample | Rp | 20.000,00 |
| j) K ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| k) Na ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| l) P ₂ O ₅ (Spektrofotometri) | Per sample | Rp | 20.000,00 |
| m) SO ₃ (Turbidimetri) | Per sample | Rp | 20.000,00 |

| | | | |
|---|------------|----|-----------|
| n) SO ₃ (Gravimetri) | Per sample | Rp | 25.000,00 |
| o) CL ⁻ (Volumetri) | Per sample | Rp | 20.000,00 |
| p) H ₂ O ⁻ | Per sample | Rp | 10.000,00 |
| 4) KAPUR TOHOR | | | |
| a) CaO total (Kompleksometri/Volumetri) | Per sample | Rp | 20.000,00 |
| b) MgO (Kompleksometri/Volumetri) | Per sample | Rp | 30.000,00 |
| c) CaO bebas (Volumetri) | Per sample | Rp | 20.000,00 |
| d) MgO (AAS) | Per sample | Rp | 15.000,00 |
| e) LOI (Gravimetri) | Per sample | Rp | 12.000,00 |
| f) Bagian tidak larut dalam Asam/HCl (Gravimetri) | Per sample | Rp | 12.000,00 |
| g) SiO ₂ (Gravimetri) | Per sample | Rp | 25.000,00 |
| h) Fe ₂ O ₃ (AAS) | Per sample | Rp | 12.000,00 |
| i) Al ₂ O ₃ (AAS) | Per sample | Rp | 20.000,00 |
| j) K ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| k) Na ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| l) P ₂ O ₅ (Spektrofotometri) | Per sample | Rp | 20.000,00 |
| m) SO ₃ (Turbidimetri) | Per sample | Rp | 20.000,00 |
| n) SO ₃ (Gravimetri) | Per sample | Rp | 25.000,00 |
| o) CL ⁻ (Volumetri) | Per sample | Rp | 20.000,00 |
| p) H ₂ O ⁻ | Per sample | Rp | 10.000,00 |
| 5) MARMER | | | |
| a) CaO total (Kompleksometri/Volumetri) | Per sample | Rp | 20.000,00 |
| b) MgO (Kompleksometri/Volumetri) | Per sample | Rp | 30.000,00 |
| c) CaO bebas (Volumetri) | Per sample | Rp | 20.000,00 |
| d) MgO (AAS) | Per sample | Rp | 15.000,00 |
| e) LOI (Gravimetri) | Per sample | Rp | 12.000,00 |
| f) Bagian tidak larut dalam Asam/HCl (Gravimetri) | Per sample | Rp | 12.000,00 |
| g) SiO ₂ (Gravimetri) | Per sample | Rp | 25.000,00 |
| h) Fe ₂ O ₃ (AAS) | Per sample | Rp | 12.000,00 |
| i) Al ₂ O ₃ (AAS) | Per sample | Rp | 20.000,00 |
| j) K ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| k) Na ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| l) P ₂ O ₅ (Spektrofotometri) | Per sample | Rp | 20.000,00 |
| m) SO ₃ (Turbidimetri) | Per sample | Rp | 20.000,00 |
| n) SO ₃ (Gravimetri) | Per sample | Rp | 25.000,00 |
| o) CL ⁻ (Volumetri) | Per sample | Rp | 20.000,00 |
| p) H ₂ O ⁻ | Per sample | Rp | 10.000,00 |
| 6) LEMPUNG | | | |
| a) SiO ₂ (AAS) | Per sample | Rp | 20.000,00 |
| b) Al ₂ O ₃ (AAS) | Per sample | Rp | 20.000,00 |
| c) Fe ₂ O ₃ (AAS) | Per sample | Rp | 12.000,00 |
| d) SiO ₂ (Gravimetri) | Per sample | Rp | 25.000,00 |
| e) Al ₂ O ₃ (Volumetri) | Per sample | Rp | 20.000,00 |

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| f) | TiO ₂ (Spektrofotometri) | Per sample | Rp | 20.000,00 |
| g) | CaO (AAS) | Per sample | Rp | 15.000,00 |
| h) | MgO (AAS) | Per sample | Rp | 15.000,00 |
| i) | K ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| j) | Na ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| k) | MnO (AAS) | Per sample | Rp | 12.000,00 |
| l) | H ₂ O ⁻ (Gravimetri) | Per sample | Rp | 10.000,00 |
| m) | H ₂ O ⁺ (Gravimetri) | Per sample | Rp | 12.000,00 |
| n) | LOI (Gravimetri) | Per sample | Rp | 12.000,00 |
| 7) | KAOLIN | | | |
| a) | SiO ₂ (AAS) | Per sample | Rp | 20.000,00 |
| b) | AL ₂ O ₃ (AAS) | Per sample | Rp | 20.000,00 |
| c) | Fe ₂ O ₃ (AAS) | Per sample | Rp | 12.000,00 |
| d) | SiO ₂ (Gravimetri) | Per sample | Rp | 25.000,00 |
| e) | AL ₂ O ₃ (Volumetri) | Per sample | Rp | 20.000,00 |
| f) | TiO ₂ (Spektrofotometri) | Per sample | Rp | 20.000,00 |
| g) | CaO (AAS) | Per sample | Rp | 15.000,00 |
| h) | MgO (AAS) | Per sample | Rp | 15.000,00 |
| i) | K ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| j) | Na ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| k) | MnO (AAS) | Per sample | Rp | 12.000,00 |
| l) | H ₂ O ⁻ (Gravimetri) | Per sample | Rp | 10.000,00 |
| m) | H ₂ O ⁺ (Gravimetri) | Per sample | Rp | 12.000,00 |
| n) | LOI (Gravimetri) | Per sample | Rp | 12.000,00 |
| 8) | BENTONIT | | | |
| a) | SiO ₂ (AAS) | Per sample | Rp | 20.000,00 |
| b) | AL ₂ O ₃ (AAS) | Per sample | Rp | 20.000,00 |
| c) | Fe ₂ O ₃ (AAS) | Per sample | Rp | 12.000,00 |
| d) | SiO ₂ (Gravimetri) | Per sample | Rp | 25.000,00 |
| e) | AL ₂ O ₃ (Volumetri) | Per sample | Rp | 20.000,00 |
| f) | TiO ₂ (Spektrofotometri) | Per sample | Rp | 20.000,00 |
| g) | CaO (AAS) | Per sample | Rp | 15.000,00 |
| h) | MgO (AAS) | Per sample | Rp | 15.000,00 |
| i) | K ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| j) | Na ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| k) | MnO (AAS) | Per sample | Rp | 12.000,00 |
| l) | H ₂ O ⁻ (Gravimetri) | Per sample | Rp | 10.000,00 |
| m) | H ₂ O ⁺ (Gravimetri) | Per sample | Rp | 12.000,00 |
| n) | LOI (Gravimetri) | Per sample | Rp | 12.000,00 |
| 9) | ZEOLIT | | | |
| a) | SiO ₂ (AAS) | Per sample | Rp | 20.000,00 |
| b) | AL ₂ O ₃ (AAS) | Per sample | Rp | 20.000,00 |
| c) | Fe ₂ O ₃ (AAS) | Per sample | Rp | 12.000,00 |
| d) | SiO ₂ (Gravimetri) | Per sample | Rp | 25.000,00 |
| e) | AL ₂ O ₃ (Volumetri) | Per sample | Rp | 20.000,00 |

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| f) TiO ₂ (Spektrofotometri) | Per sample | Rp | 20.000,00 |
| g) CaO (AAS) | Per sample | Rp | 15.000,00 |
| h) MgO (AAS) | Per sample | Rp | 15.000,00 |
| i) K ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| j) Na ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| k) MnO (AAS) | Per sample | Rp | 12.000,00 |
| l) H ₂ O ⁻ (Gravimetri) | Per sample | Rp | 10.000,00 |
| m) H ₂ O ⁺ (Gravimetri) | Per sample | Rp | 12.000,00 |
| n) LOI (Gravimetri) | Per sample | Rp | 12.000,00 |
| 10) BALL CLAY | | | |
| a) SiO ₂ (AAS) | Per sample | Rp | 20.000,00 |
| b) AL ₂ O ₃ (AAS) | Per sample | Rp | 20.000,00 |
| c) Fe ₂ O ₃ (AAS) | Per sample | Rp | 12.000,00 |
| d) SiO ₂ (Gravimetri) | Per sample | Rp | 25.000,00 |
| e) AL ₂ O ₃ (Volumetri) | Per sample | Rp | 20.000,00 |
| f) TiO ₂ (Spektrofotometri) | Per sample | Rp | 20.000,00 |
| g) CaO (AAS) | Per sample | Rp | 15.000,00 |
| h) MgO (AAS) | Per sample | Rp | 15.000,00 |
| i) K ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| j) Na ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| k) MnO (AAS) | Per sample | Rp | 12.000,00 |
| l) H ₂ O ⁻ (Gravimetri) | Per sample | Rp | 10.000,00 |
| m) H ₂ O ⁺ (Gravimetri) | Per sample | Rp | 12.000,00 |
| n) LOI (Gravimetri) | Per sample | Rp | 12.000,00 |
| 11) FELSPAR | | | |
| a) SiO ₂ (AAS) | Per sample | Rp | 20.000,00 |
| b) AL ₂ O ₃ (AAS) | Per sample | Rp | 20.000,00 |
| c) Fe ₂ O ₃ (AAS) | Per sample | Rp | 12.000,00 |
| d) SiO ₂ (Gravimetri) | Per sample | Rp | 25.000,00 |
| e) AL ₂ O ₃ (Volumetri) | Per sample | Rp | 20.000,00 |
| f) TiO ₂ (Spektrofotometri) | Per sample | Rp | 20.000,00 |
| g) CaO (AAS) | Per sample | Rp | 15.000,00 |
| h) MgO (AAS) | Per sample | Rp | 15.000,00 |
| i) K ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| j) Na ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| k) MnO (AAS) | Per sample | Rp | 12.000,00 |
| l) H ₂ O ⁻ (Gravimetri) | Per sample | Rp | 10.000,00 |
| m) H ₂ O ⁺ (Gravimetri) | Per sample | Rp | 12.000,00 |
| n) LOI (Gravimetri) | Per sample | Rp | 12.000,00 |
| 12) TUFA | | | |
| a) SiO ₂ (AAS) | Per sample | Rp | 20.000,00 |
| b) AL ₂ O ₃ (AAS) | Per sample | Rp | 20.000,00 |
| c) Fe ₂ O ₃ (AAS) | Per sample | Rp | 12.000,00 |
| d) SiO ₂ (Gravimetri) | Per sample | Rp | 25.000,00 |
| e) AL ₂ O ₃ (Volumetri) | Per sample | Rp | 20.000,00 |

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| f) TiO ₂ (Spektrofotometri) | Per sample | Rp | 20.000,00 |
| g) CaO (AAS) | Per sample | Rp | 15.000,00 |
| h) MgO (AAS) | Per sample | Rp | 15.000,00 |
| i) K ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| j) Na ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| k) MnO (AAS) | Per sample | Rp | 12.000,00 |
| l) H ₂ O ⁻ (Gravimetri) | Per sample | Rp | 10.000,00 |
| m) H ₂ O ⁺ (Gravimetri) | Per sample | Rp | 12.000,00 |
| n) LOI (Gravimetri) | Per sample | Rp | 12.000,00 |
| 13) TRASS | | | |
| a) SiO ₂ (AAS) | Per sample | Rp | 20.000,00 |
| b) AL ₂ O ₃ (AAS) | Per sample | Rp | 20.000,00 |
| c) Fe ₂ O ₃ (AAS) | Per sample | Rp | 12.000,00 |
| d) SiO ₂ (Gravimetri) | Per sample | Rp | 25.000,00 |
| e) AL ₂ O ₃ (Volumetri) | Per sample | Rp | 20.000,00 |
| f) TiO ₂ (Spektrofotometri) | Per sample | Rp | 20.000,00 |
| g) CaO (AAS) | Per sample | Rp | 15.000,00 |
| h) MgO (AAS) | Per sample | Rp | 15.000,00 |
| i) K ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| j) Na ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| k) MnO (AAS) | Per sample | Rp | 12.000,00 |
| l) H ₂ O ⁻ (Gravimetri) | Per sample | Rp | 10.000,00 |
| m) H ₂ O ⁺ (Gravimetri) | Per sample | Rp | 12.000,00 |
| n) LOI (Gravimetri) | Per sample | Rp | 12.000,00 |
| 14) PERLIT | | | |
| a) SiO ₂ (AAS) | Per sample | Rp | 20.000,00 |
| b) AL ₂ O ₃ (AAS) | Per sample | Rp | 20.000,00 |
| c) Fe ₂ O ₃ (AAS) | Per sample | Rp | 12.000,00 |
| d) SiO ₂ (Gravimetri) | Per sample | Rp | 25.000,00 |
| e) AL ₂ O ₃ (Volumetri) | Per sample | Rp | 20.000,00 |
| f) TiO ₂ (Spektrofotometri) | Per sample | Rp | 20.000,00 |
| g) CaO (AAS) | Per sample | Rp | 15.000,00 |
| h) MgO (AAS) | Per sample | Rp | 15.000,00 |
| i) K ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| j) Na ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| k) MnO (AAS) | Per sample | Rp | 12.000,00 |
| l) H ₂ O ⁻ (Gravimetri) | Per sample | Rp | 10.000,00 |
| m) H ₂ O ⁺ (Gravimetri) | Per sample | Rp | 12.000,00 |
| n) LOI (Gravimetri) | Per sample | Rp | 12.000,00 |
| 15) MIKA | | | |
| a) SiO ₂ (AAS) | Per sample | Rp | 20.000,00 |
| b) AL ₂ O ₃ (AAS) | Per sample | Rp | 20.000,00 |
| c) Fe ₂ O ₃ (AAS) | Per sample | Rp | 12.000,00 |
| d) SiO ₂ (Gravimetri) | Per sample | Rp | 25.000,00 |
| e) AL ₂ O ₃ (Volumetri) | Per sample | Rp | 20.000,00 |

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|---|------------|----|-----------|
| f) TiO ₂ (Spektrofotometri) | Per sample | Rp | 20.000,00 |
| g) CaO (AAS) | Per sample | Rp | 15.000,00 |
| h) MgO (AAS) | Per sample | Rp | 15.000,00 |
| i) K ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| j) Na ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| k) MnO (AAS) | Per sample | Rp | 12.000,00 |
| l) H ₂ O ⁻ (Gravimetri) | Per sample | Rp | 10.000,00 |
| m) H ₂ O ⁺ (Gravimetri) | Per sample | Rp | 12.000,00 |
| n) LOI (Gravimetri) | Per sample | Rp | 12.000,00 |
| 16) DIATOME | | | |
| a) SiO ₂ (AAS) | Per sample | Rp | 20.000,00 |
| b) AL ₂ O ₃ (AAS) | Per sample | Rp | 20.000,00 |
| c) Fe ₂ O ₃ (AAS) | Per sample | Rp | 12.000,00 |
| d) SiO ₂ (Gravimetri) | Per sample | Rp | 25.000,00 |
| e) AL ₂ O ₃ (Volumetri) | Per sample | Rp | 20.000,00 |
| f) TiO ₂ (Spektrofotometri) | Per sample | Rp | 20.000,00 |
| g) CaO (AAS) | Per sample | Rp | 15.000,00 |
| h) MgO (AAS) | Per sample | Rp | 15.000,00 |
| i) K ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| j) Na ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| k) MnO (AAS) | Per sample | Rp | 12.000,00 |
| l) H ₂ O ⁻ (Gravimetri) | Per sample | Rp | 10.000,00 |
| m) H ₂ O ⁺ (Gravimetri) | Per sample | Rp | 12.000,00 |
| n) LOI (Gravimetri) | Per sample | Rp | 12.000,00 |
| 17) PUMICE | | | |
| a) SiO ₂ (AAS) | Per sample | Rp | 20.000,00 |
| b) AL ₂ O ₃ (AAS) | Per sample | Rp | 20.000,00 |
| c) Fe ₂ O ₃ (AAS) | Per sample | Rp | 12.000,00 |
| d) SiO ₂ (Gravimetri) | Per sample | Rp | 25.000,00 |
| e) AL ₂ O ₃ (Volumetri) | Per sample | Rp | 20.000,00 |
| f) TiO ₂ (Spektrofotometri) | Per sample | Rp | 20.000,00 |
| g) CaO (AAS) | Per sample | Rp | 15.000,00 |
| h) MgO (AAS) | Per sample | Rp | 15.000,00 |
| i) K ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| j) Na ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| k) MnO (AAS) | Per sample | Rp | 12.000,00 |
| l) H ₂ O ⁻ (Gravimetri) | Per sample | Rp | 10.000,00 |
| m) H ₂ O ⁺ (Gravimetri) | Per sample | Rp | 12.000,00 |
| n) LOI (Gravimetri) | Per sample | Rp | 12.000,00 |
| 18) BATU APUNG DAN TANAH | | | |
| a) SiO ₂ (AAS) | Per sample | Rp | 20.000,00 |
| b) AL ₂ O ₃ (AAS) | Per sample | Rp | 20.000,00 |
| c) Fe ₂ O ₃ (AAS) | Per sample | Rp | 12.000,00 |
| d) SiO ₂ (Gravimetri) | Per sample | Rp | 25.000,00 |
| e) AL ₂ O ₃ (Volumetri) | Per sample | Rp | 20.000,00 |

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|---|------------|----|-----------|
| f) TiO ₂ (Spektrofotometri) | Per sample | Rp | 20.000,00 |
| g) CaO (AAS) | Per sample | Rp | 15.000,00 |
| h) MgO (AAS) | Per sample | Rp | 15.000,00 |
| i) K ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| j) Na ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| k) MnO (AAS) | Per sample | Rp | 12.000,00 |
| l) H ₂ O ⁻ (Gravimetri) | Per sample | Rp | 10.000,00 |
| m) H ₂ O ⁺ (Gravimetri) | Per sample | Rp | 12.000,00 |
| n) LOI (Gravimetri) | Per sample | Rp | 12.000,00 |
| 19) ABU BATU BARA | | | |
| a) SiO ₂ (AAS) | Per sample | Rp | 20.000,00 |
| b) Al ₂ O ₃ (AAS) | Per sample | Rp | 20.000,00 |
| c) Fe ₂ O ₃ (AAS) | Per sample | Rp | 12.000,00 |
| d) SiO ₂ (Gravimetri) | Per sample | Rp | 25.000,00 |
| e) Al ₂ O ₃ (Volumetri) | Per sample | Rp | 20.000,00 |
| f) TiO ₂ (Spektrofotometri) | Per sample | Rp | 20.000,00 |
| g) CaO (AAS) | Per sample | Rp | 15.000,00 |
| h) MgO (AAS) | Per sample | Rp | 15.000,00 |
| i) K ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| j) Na ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| k) MnO (AAS) | Per sample | Rp | 12.000,00 |
| l) H ₂ O ⁻ (Gravimetri) | Per sample | Rp | 10.000,00 |
| m) H ₂ O ⁺ (Gravimetri) | Per sample | Rp | 12.000,00 |
| n) LOI (Gravimetri) | Per sample | Rp | 12.000,00 |
| 20) GALENA | | | |
| a) Au (Fire assay-AAS) | Per sample | Rp | 45.000,00 |
| b) Ag (Fire assay-AAS) | Per sample | Rp | 45.000,00 |
| c) Au + Ag (Fire assay-AAS) | Per sample | Rp | 60.000,00 |
| d) Pb (AAS) | Per sample | Rp | 10.000,00 |
| e) Cu (AAS) | Per sample | Rp | 10.000,00 |
| f) Zn (AAS) | Per sample | Rp | 10.000,00 |
| g) Fe (AAS) | Per sample | Rp | 12.000,00 |
| h) Mn (AAS) | Per sample | Rp | 12.000,00 |
| i) Cd (AAS) | Per sample | Rp | 12.000,00 |
| j) S total (Gravimetri) | Per sample | Rp | 30.000,00 |
| k) As (Spektrofotometri) | Per sample | Rp | 30.000,00 |
| l) Sb (AAS) | Per sample | Rp | 20.000,00 |
| m) Bi (AAS) | Per sample | Rp | 20.000,00 |
| n) Pt (Fire assay-AAS) | Per sample | Rp | 40.000,00 |
| o) Pd (Fire assay-AAS) | Per sample | Rp | 40.000,00 |
| p) Fe (Volumetri) | Per sample | Rp | 20.000,00 |
| 21) PIRIT | | | |
| a) Au (Fire assay-AAS) | Per sample | Rp | 45.000,00 |
| b) Ag (Fire assay-AAS) | Per sample | Rp | 45.000,00 |
| c) Au + Ag (Fire assay-AAS) | Per sample | Rp | 60.000,00 |
| d) Pb (AAS) | Per sample | Rp | 10.000,00 |
| e) Cu (AAS) | Per sample | Rp | 10.000,00 |
| f) Zn (AAS) | Per sample | Rp | 10.000,00 |

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|-----------------------------|------------|----|-----------|
| g) Fe (AAS) | Per sample | Rp | 12.000,00 |
| h) Mn (AAS) | Per sample | Rp | 12.000,00 |
| i) Cd (AAS) | Per sample | Rp | 12.000,00 |
| j) S total (Gravimetri) | Per sample | Rp | 30.000,00 |
| k) As (Spektrofotometri) | Per sample | Rp | 30.000,00 |
| l) Sb (AAS) | Per sample | Rp | 20.000,00 |
| m) Bi (AAS) | Per sample | Rp | 20.000,00 |
| n) Pt (Fire assay-AAS) | Per sample | Rp | 40.000,00 |
| o) Pd (Fire assay-AAS) | Per sample | Rp | 40.000,00 |
| p) Fe (Volumetri) | Per sample | Rp | 20.000,00 |
| 22) KALKOPIRIT | | | |
| a) Au (Fire assay-AAS) | Per sample | Rp | 45.000,00 |
| b) Ag (Fire assay-AAS) | Per sample | Rp | 45.000,00 |
| c) Au + Ag (Fire assay-AAS) | Per sample | Rp | 60.000,00 |
| d) Pb (AAS) | Per sample | Rp | 10.000,00 |
| e) Cu (AAS) | Per sample | Rp | 10.000,00 |
| f) Zn (AAS) | Per sample | Rp | 10.000,00 |
| g) Fe (AAS) | Per sample | Rp | 12.000,00 |
| h) Mn (AAS) | Per sample | Rp | 12.000,00 |
| i) Cd (AAS) | Per sample | Rp | 12.000,00 |
| j) S total (Gravimetri) | Per sample | Rp | 30.000,00 |
| k) As (Spektrofotometri) | Per sample | Rp | 30.000,00 |
| l) Sb (AAS) | Per sample | Rp | 20.000,00 |
| m) Bi (AAS) | Per sample | Rp | 20.000,00 |
| n) Pt (Fire assay-AAS) | Per sample | Rp | 40.000,00 |
| o) Pd (Fire assay-AAS) | Per sample | Rp | 40.000,00 |
| p) Fe (Volumetri) | Per sample | Rp | 20.000,00 |
| 23) SPALERIT | | | |
| a) Au (Fire assay-AAS) | Per sample | Rp | 45.000,00 |
| b) Ag (Fire assay-AAS) | Per sample | Rp | 45.000,00 |
| c) Au + Ag (Fire assay-AAS) | Per sample | Rp | 60.000,00 |
| d) Pb (AAS) | Per sample | Rp | 10.000,00 |
| e) Cu (AAS) | Per sample | Rp | 10.000,00 |
| f) Zn (AAS) | Per sample | Rp | 10.000,00 |
| g) Fe (AAS) | Per sample | Rp | 12.000,00 |
| h) Mn (AAS) | Per sample | Rp | 12.000,00 |
| i) Cd (AAS) | Per sample | Rp | 12.000,00 |
| j) S total (Gravimetri) | Per sample | Rp | 30.000,00 |
| k) As (Spektrofotometri) | Per sample | Rp | 30.000,00 |
| l) Sb (AAS) | Per sample | Rp | 20.000,00 |
| m) Bi (AAS) | Per sample | Rp | 20.000,00 |
| n) Pt (Fire assay-AAS) | Per sample | Rp | 40.000,00 |
| o) Pd (Fire assay-AAS) | Per sample | Rp | 40.000,00 |
| p) Fe (Volumetri) | Per sample | Rp | 20.000,00 |
| 24) ANTIMON | | | |
| a) Au (Fire assay-AAS) | Per sample | Rp | 45.000,00 |
| b) Ag (Fire assay-AAS) | Per sample | Rp | 45.000,00 |
| c) Au + Ag (Fire assay-AAS) | Per sample | Rp | 60.000,00 |
| d) Pb (AAS) | Per sample | Rp | 10.000,00 |
| e) Cu (AAS) | Per sample | Rp | 10.000,00 |
| f) Zn (AAS) | Per sample | Rp | 10.000,00 |

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|---|------------|----|-----------|
| g) Fe (AAS) | Per sample | Rp | 12.000,00 |
| h) Mn (AAS) | Per sample | Rp | 12.000,00 |
| i) Cd (AAS) | Per sample | Rp | 12.000,00 |
| j) S total (Gravimetri) | Per sample | Rp | 30.000,00 |
| k) As (Spektrofotometri) | Per sample | Rp | 30.000,00 |
| l) Sb (AAS) | Per sample | Rp | 20.000,00 |
| m) Bi (AAS) | Per sample | Rp | 20.000,00 |
| n) Pt (Fire assay-AAS) | Per sample | Rp | 40.000,00 |
| o) Pd (Fire assay-AAS) | Per sample | Rp | 40.000,00 |
| p) Fe (Volumetri) | Per sample | Rp | 20.000,00 |
| 25) EMAS | | | |
| a) Au (Fire assay-AAS) | Per sample | Rp | 45.000,00 |
| b) Ag (Fire assay-AAS) | Per sample | Rp | 45.000,00 |
| c) Au + Ag (Fire assay-AAS) | Per sample | Rp | 60.000,00 |
| d) Pb (AAS) | Per sample | Rp | 10.000,00 |
| e) Cu (AAS) | Per sample | Rp | 10.000,00 |
| f) Zn (AAS) | Per sample | Rp | 10.000,00 |
| g) Fe (AAS) | Per sample | Rp | 12.000,00 |
| h) Mn (AAS) | Per sample | Rp | 12.000,00 |
| i) Cd (AAS) | Per sample | Rp | 12.000,00 |
| j) S total (Gravimetri) | Per sample | Rp | 30.000,00 |
| k) As (Spektrofotometri) | Per sample | Rp | 30.000,00 |
| l) Sb (AAS) | Per sample | Rp | 20.000,00 |
| m) Bi (AAS) | Per sample | Rp | 20.000,00 |
| n) Pt (Fire assay-AAS) | Per sample | Rp | 40.000,00 |
| o) Pd (Fire assay-AAS) | Per sample | Rp | 40.000,00 |
| p) Fe (Volumetri) | Per sample | Rp | 20.000,00 |
| 26) PERAK | | | |
| a) Au (Fire assay-AAS) | Per sample | Rp | 45.000,00 |
| b) Ag (Fire assay-AAS) | Per sample | Rp | 45.000,00 |
| c) Au + Ag (Fire assay-AAS) | Per sample | Rp | 60.000,00 |
| d) Pb (AAS) | Per sample | Rp | 10.000,00 |
| e) Cu (AAS) | Per sample | Rp | 10.000,00 |
| f) Zn (AAS) | Per sample | Rp | 10.000,00 |
| g) Fe (AAS) | Per sample | Rp | 12.000,00 |
| h) Mn (AAS) | Per sample | Rp | 12.000,00 |
| i) Cd (AAS) | Per sample | Rp | 12.000,00 |
| j) S total (Gravimetri) | Per sample | Rp | 30.000,00 |
| k) As (Spektrofotometri) | Per sample | Rp | 30.000,00 |
| l) Sb (AAS) | Per sample | Rp | 20.000,00 |
| m) Bi (AAS) | Per sample | Rp | 20.000,00 |
| n) Pt (Fire assay-AAS) | Per sample | Rp | 40.000,00 |
| o) Pd (Fire assay-AAS) | Per sample | Rp | 40.000,00 |
| p) Fe (Volumetri) | Per sample | Rp | 20.000,00 |
| 27) PASIR KUARSA | | | |
| a) SiO ₂ (Gravimetri) | Per sample | Rp | 25.000,00 |
| b) Fe ₂ O ₃ (AAS) | Per sample | Rp | 12.000,00 |
| c) Al ₂ O ₃ (AAS) | Per sample | Rp | 15.000,00 |
| d) Cr ₂ O ₃ (AAS) | Per sample | Rp | 15.000,00 |
| e) ZrO ₂ (AAS) | Per sample | Rp | 50.000,00 |

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|---|------------|----|-----------|
| f) TiO ₂ (Spektrofotometri) | Per sample | Rp | 20.000,00 |
| g) CaO (AAS) | Per sample | Rp | 15.000,00 |
| h) MgO (AAS) | Per sample | Rp | 15.000,00 |
| i) K ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| j) Na ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| k) P ₂ O ₅ (Spektrofotometri) | Per sample | Rp | 30.000,00 |
| l) LOI (Gravimetri) | Per sample | Rp | 12.000,00 |
| m) Sn (AAS) | Per sample | Rp | 30.000,00 |
| 28) BATU KUARSA | | | |
| a) SiO ₂ (Gravimetri) | Per sample | Rp | 25.000,00 |
| b) Fe ₂ O ₃ (AAS) | Per sample | Rp | 12.000,00 |
| c) Al ₂ O ₃ (AAS) | Per sample | Rp | 15.000,00 |
| d) Cr ₂ O ₃ (AAS) | Per sample | Rp | 15.000,00 |
| e) ZrO ₂ (AAS) | Per sample | Rp | 50.000,00 |
| f) TiO ₂ (Spektrofotometri) | Per sample | Rp | 20.000,00 |
| g) CaO (AAS) | Per sample | Rp | 15.000,00 |
| h) MgO (AAS) | Per sample | Rp | 15.000,00 |
| i) K ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| j) Na ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| k) P ₂ O ₅ (Spektrofotometri) | Per sample | Rp | 30.000,00 |
| l) LOI (Gravimetri) | Per sample | Rp | 12.000,00 |
| m) Sn (AAS) | Per sample | Rp | 30.000,00 |
| 29) PASIR ZIRCON | | | |
| a) SiO ₂ (Gravimetri) | Per sample | Rp | 25.000,00 |
| b) Fe ₂ O ₃ (AAS) | Per sample | Rp | 12.000,00 |
| c) Al ₂ O ₃ (AAS) | Per sample | Rp | 15.000,00 |
| d) Cr ₂ O ₃ (AAS) | Per sample | Rp | 15.000,00 |
| e) ZrO ₂ (AAS) | Per sample | Rp | 50.000,00 |
| f) TiO ₂ (Spektrofotometri) | Per sample | Rp | 20.000,00 |
| g) CaO (AAS) | Per sample | Rp | 15.000,00 |
| h) MgO (AAS) | Per sample | Rp | 15.000,00 |
| i) K ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| j) Na ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| k) P ₂ O ₅ (Spektrofotometri) | Per sample | Rp | 30.000,00 |
| l) LOI (Gravimetri) | Per sample | Rp | 12.000,00 |
| m) Sn (AAS) | Per sample | Rp | 30.000,00 |
| 30) BIJIH BESI | | | |
| a) Fe total (Volumetri) | Per sample | Rp | 20.000,00 |
| b) FeO (Volumetri) | Per sample | Rp | 20.000,00 |
| c) Fe ₂ O ₃ (Volumetri) | Per sample | Rp | 20.000,00 |
| d) TiO ₂ (Spektrofotometri) | Per sample | Rp | 20.000,00 |
| e) P ₂ O ₅ (Spektrofotometri) | Per sample | Rp | 30.000,00 |
| f) SO ₃ (Gravimetri) | Per sample | Rp | 30.000,00 |
| g) S tot (Gravimetri) | Per sample | Rp | 30.000,00 |
| h) V (AAS) | Per sample | Rp | 30.000,00 |

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|---|------------|----|-----------|
| i) Cr ₂ O ₃ (AAS) | Per sample | Rp | 15.000,00 |
| j) Ni (AAS) | Per sample | Rp | 15.000,00 |
| k) Co (AAS) | Per sample | Rp | 15.000,00 |
| l) SiO ₂ (Gravimetri) | Per sample | Rp | 25.000,00 |
| m) Al ₂ O ₃ (AAS) | Per sample | Rp | 15.000,00 |
| n) CaO (AAS) | Per sample | Rp | 15.000,00 |
| o) MgO (AAS) | Per sample | Rp | 15.000,00 |
| p) H ₂ O ⁻ (Gravimetri) | Per sample | Rp | 10.000,00 |
| 31) PASIR BESI | | | |
| a) Fe total (Volumetri) | Per sample | Rp | 20.000,00 |
| b) FeO (Volumetri) | Per sample | Rp | 20.000,00 |
| c) Fe ₂ O ₃ (Volumetri) | Per sample | Rp | 20.000,00 |
| d) TiO ₂ (Spektrofotometri) | Per sample | Rp | 20.000,00 |
| e) P ₂ O ₅ (Spektrofotometri) | Per sample | Rp | 30.000,00 |
| f) SO ₃ (Gravimetri) | Per sample | Rp | 30.000,00 |
| g) S tot (Gravimetri) | Per sample | Rp | 30.000,00 |
| h) V (AAS) | Per sample | Rp | 30.000,00 |
| i) Cr ₂ O ₃ (AAS) | Per sample | Rp | 15.000,00 |
| j) Ni (AAS) | Per sample | Rp | 15.000,00 |
| k) Co (AAS) | Per sample | Rp | 15.000,00 |
| l) SiO ₂ (Gravimetri) | Per sample | Rp | 25.000,00 |
| m) Al ₂ O ₃ (AAS) | Per sample | Rp | 15.000,00 |
| n) CaO (AAS) | Per sample | Rp | 15.000,00 |
| o) MgO (AAS) | Per sample | Rp | 15.000,00 |
| p) H ₂ O ⁻ (Gravimetri) | Per sample | Rp | 10.000,00 |
| 32) LATERIT | | | |
| a) Fe total (Volumetri) | Per sample | Rp | 20.000,00 |
| b) FeO (Volumetri) | Per sample | Rp | 20.000,00 |
| c) Fe ₂ O ₃ (Volumetri) | Per sample | Rp | 20.000,00 |
| d) TiO ₂ (Spektrofotometri) | Per sample | Rp | 20.000,00 |
| e) P ₂ O ₅ (Spektrofotometri) | Per sample | Rp | 30.000,00 |
| f) SO ₃ (Gravimetri) | Per sample | Rp | 30.000,00 |
| g) S tot (Gravimetri) | Per sample | Rp | 30.000,00 |
| h) V (AAS) | Per sample | Rp | 30.000,00 |
| i) Cr ₂ O ₃ (AAS) | Per sample | Rp | 15.000,00 |
| j) Ni (AAS) | Per sample | Rp | 15.000,00 |
| k) Co (AAS) | Per sample | Rp | 15.000,00 |
| l) SiO ₂ (Gravimetri) | Per sample | Rp | 25.000,00 |
| m) Al ₂ O ₃ (AAS) | Per sample | Rp | 15.000,00 |
| n) CaO (AAS) | Per sample | Rp | 15.000,00 |
| o) MgO (AAS) | Per sample | Rp | 15.000,00 |
| p) H ₂ O ⁻ (Gravimetri) | Per sample | Rp | 10.000,00 |
| 33) PELAT BESI | | | |
| a) Fe total (Volumetri) | Per sample | Rp | 20.000,00 |
| b) FeO (Volumetri) | Per sample | Rp | 20.000,00 |
| c) Fe ₂ O ₃ (Volumetri) | Per sample | Rp | 20.000,00 |

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|--------------------------|--|------------|----|-----------|
| d) | TiO ₂ (Spektrofotometri) | Per sample | Rp | 20.000,00 |
| e) | P ₂ O ₅ (Spektrofotometri) | Per sample | Rp | 30.000,00 |
| f) | SO ₃ (Gravimetri) | Per sample | Rp | 30.000,00 |
| g) | S tot (Gravimetri) | Per sample | Rp | 30.000,00 |
| h) | V (AAS) | Per sample | Rp | 30.000,00 |
| i) | Cr ₂ O ₃ (AAS) | Per sample | Rp | 15.000,00 |
| j) | Ni (AAS) | Per sample | Rp | 15.000,00 |
| k) | Co (AAS) | Per sample | Rp | 15.000,00 |
| l) | SiO ₂ (Gravimetri) | Per sample | Rp | 25.000,00 |
| m) | Al ₂ O ₃ (AAS) | Per sample | Rp | 15.000,00 |
| n) | CaO (AAS) | Per sample | Rp | 15.000,00 |
| o) | MgO (AAS) | Per sample | Rp | 15.000,00 |
| p) | H ₂ O ⁻ (Gravimetri) | Per sample | Rp | 10.000,00 |
| 34) BATUAN FOSFAT | | | | |
| a) | P ₂ O ₅ total (Spektrofotometri) | Per sample | Rp | 30.000,00 |
| b) | P ₂ O ₅ CAS (Spektrofotometri) | Per sample | Rp | 30.000,00 |
| c) | CaO (Volumetri) | Per sample | Rp | 20.000,00 |
| d) | CaO (AAS) | Per sample | Rp | 15.000,00 |
| e) | MgO (AAS) | Per sample | Rp | 15.000,00 |
| f) | Fe ₂ O ₃ (AAS) | Per sample | Rp | 12.000,00 |
| g) | Al ₂ O ₃ (AAS) | Per sample | Rp | 15.000,00 |
| h) | LOI (Gravimetri) | Per sample | Rp | 12.000,00 |
| i) | SiO ₂ (Gravimetri) | Per sample | Rp | 25.000,00 |
| j) | F (Spektrofotometri) | Per sample | Rp | 30.000,00 |
| k) | H ₂ O ⁻ (Gravimetri) | Per sample | Rp | 10.000,00 |
| l) | MnO (AAS) | Per sample | Rp | 12.000,00 |
| 35) BIJIH MANGAN | | | | |
| a) | Mn total (Volumetri) | Per sample | Rp | 20.000,00 |
| b) | MnO ₂ (Volumetri) | Per sample | Rp | 20.000,00 |
| c) | Fe ₂ O ₃ (AAS) | Per sample | Rp | 12.000,00 |
| d) | P ₂ O ₅ (Spektrofotometri) | Per sample | Rp | 25.000,00 |
| e) | Cu (AAS) | Per sample | Rp | 10.000,00 |
| f) | CaO (AAS) | Per sample | Rp | 15.000,00 |
| g) | MgO (AAS) | Per sample | Rp | 15.000,00 |
| h) | H ₂ O ⁻ (Gravimetri) | Per sample | Rp | 10.000,00 |
| i) | BaO (AAS) | Per sample | Rp | 15.000,00 |
| j) | SO ₃ (Gravimetri) | Per sample | Rp | 20.000,00 |
| k) | Al ₂ O ₃ (AAS) | Per sample | Rp | 20.000,00 |
| l) | SiO ₂ (Gravimetri) | Per sample | Rp | 25.000,00 |
| 36) BIJIH BAUKSIT | | | | |
| a) | SiO ₂ total (Gravimetri) | Per sample | Rp | 25.000,00 |
| b) | SiO rektif (Gravimetri) | Per sample | Rp | 25.000,00 |
| c) | AL ₂ O ₃ (AAS) | Per sample | Rp | 20.000,00 |
| d) | AL ₂ O ₃ (Gravimetri) | Per sample | Rp | 20.000,00 |
| e) | Fe ₂ O ₃ (AAS) | Per sample | Rp | 12.000,00 |

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| f) Fe ₂ O ₃ (Volumetri) | Per sample | Rp | 15.000,00 |
| g) FeO (Volumetri) | Per sample | Rp | 20.000,00 |
| h) TiO ₂ (Spektofotometri) | Per sample | Rp | 20.000,00 |
| i) P ₂ O ₅ (Spektofotometri) | Per sample | Rp | 30.000,00 |
| j) CaO (AAS) | Per sample | Rp | 15.000,00 |
| k) MgO (AAS) | Per sample | Rp | 15.000,00 |
| l) K ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| m) Na ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| n) H ₂ O ⁺ (Gravimetri) | Per sample | Rp | 12.000,00 |
| o) H ₂ O ⁻ (Gravimetri) | Per sample | Rp | 10.000,00 |
| p) LOI (Gravimetri) | Per sample | Rp | 12.000,00 |
| 37) BARIT | | | |
| a) BaO (Gravimetri) | Per sample | Rp | 30.000,00 |
| b) BaO (AAS) | Per sample | Rp | 20.000,00 |
| c) SO ₃ (Gravimetri) | Per sample | Rp | 30.000,00 |
| d) CaO (AAS) | Per sample | Rp | 15.000,00 |
| e) MgO (AAS) | Per sample | Rp | 15.000,00 |
| f) SrO (AAS) | Per sample | Rp | 15.000,00 |
| g) SiO ₂ (Gravimetri) | Per sample | Rp | 25.000,00 |
| h) Fe ₂ O ₃ (AAS) | Per sample | Rp | 12.000,00 |
| i) AL ₂ O ₃ (AAS) | Per sample | Rp | 20.000,00 |
| j) LOI (Gravimetri) | Per sample | Rp | 12.000,00 |
| k) H ₂ O ⁻ (Gravimetri) | Per sample | Rp | 10.000,00 |
| 38) BARIUM KARBONAT | | | |
| a) BaO (Gravimetri) | Per sample | Rp | 30.000,00 |
| b) BaO (AAS) | Per sample | Rp | 20.000,00 |
| c) SO ₃ (Gravimetri) | Per sample | Rp | 30.000,00 |
| d) CaO (AAS) | Per sample | Rp | 15.000,00 |
| e) MgO (AAS) | Per sample | Rp | 15.000,00 |
| f) SrO (AAS) | Per sample | Rp | 15.000,00 |
| g) SiO ₂ (Gravimetri) | Per sample | Rp | 25.000,00 |
| h) Fe ₂ O ₃ (AAS) | Per sample | Rp | 12.000,00 |
| i) AL ₂ O ₃ (AAS) | Per sample | Rp | 20.000,00 |
| j) LOI (Gravimetri) | Per sample | Rp | 12.000,00 |
| k) H ₂ O ⁻ (Gravimetri) | Per sample | Rp | 10.000,00 |
| 39) BIJIH TIMAH | | | |
| a) Sn (Volumetri) | Per sample | Rp | 30.000,00 |
| b) Sn (AAS) | Per sample | Rp | 30.000,00 |
| c) Sb (AAS) | Per sample | Rp | 20.000,00 |
| d) As (Spektrofotometri) | Per sample | Rp | 30.000,00 |
| e) Bi (AAS) | Per sample | Rp | 30.000,00 |
| f) Fe total (AAS) | Per sample | Rp | 12.000,00 |
| g) SiO ₂ (Gravimetri) | Per sample | Rp | 25.000,00 |
| h) Cu (AAS) | Per sample | Rp | 10.000,00 |
| i) Pb (AAS) | Per sample | Rp | 10.000,00 |
| j) S total (Gravimetri) | Per sample | Rp | 30.000,00 |

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|---|------------|----|-----------|
| k) P ₂ O ₅ (Spektrofotometri) | Per sample | Rp | 30.000,00 |
| l) CaO (AAS) | Per sample | Rp | 15.000,00 |
| 40) ANTIMON | | | |
| a) Sn (Volumetri) | Per sample | Rp | 30.000,00 |
| b) Sn (AAS) | Per sample | Rp | 30.000,00 |
| c) Sb (AAS) | Per sample | Rp | 20.000,00 |
| d) As (Spektrofotometri) | Per sample | Rp | 30.000,00 |
| e) Bi (AAS) | Per sample | Rp | 30.000,00 |
| f) Fe total (AAS) | Per sample | Rp | 12.000,00 |
| g) SiO ₂ (Gravimetri) | Per sample | Rp | 25.000,00 |
| h) Cu (AAS) | Per sample | Rp | 10.000,00 |
| i) Pb (AAS) | Per sample | Rp | 10.000,00 |
| j) S total (Gravimetri) | Per sample | Rp | 30.000,00 |
| k) P ₂ O ₅ (Spektrofotometri) | Per sample | Rp | 30.000,00 |
| l) CaO (AAS) | Per sample | Rp | 15.000,00 |
| 41) BISMUT | | | |
| a) Sn (Volumetri) | Per sample | Rp | 30.000,00 |
| b) Sn (AAS) | Per sample | Rp | 30.000,00 |
| c) Sb (AAS) | Per sample | Rp | 20.000,00 |
| d) As (Spektrofotometri) | Per sample | Rp | 30.000,00 |
| e) Bi (AAS) | Per sample | Rp | 30.000,00 |
| f) Fe total (AAS) | Per sample | Rp | 12.000,00 |
| g) SiO ₂ (Gravimetri) | Per sample | Rp | 25.000,00 |
| h) Cu (AAS) | Per sample | Rp | 10.000,00 |
| i) Pb (AAS) | Per sample | Rp | 10.000,00 |
| j) S total (Gravimetri) | Per sample | Rp | 30.000,00 |
| k) P ₂ O ₅ (Spektrofotometri) | Per sample | Rp | 30.000,00 |
| l) CaO (AAS) | Per sample | Rp | 15.000,00 |
| 42) GIPSUM | | | |
| a) CaO (Volumetri) | Per sample | Rp | 30.000,00 |
| b) CaO (AAS) | Per sample | Rp | 20.000,00 |
| c) MgO (AAS) | Per sample | Rp | 15.000,00 |
| d) SO ₃ (Gravimetri) | Per sample | Rp | 30.000,00 |
| e) Fe ₂ O ₃ (AAS) | Per sample | Rp | 12.000,00 |
| f) AL ₂ O ₃ (AAS) | Per sample | Rp | 15.000,00 |
| g) BaO (AAS) | Per sample | Rp | 15.000,00 |
| h) K ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| i) Na ₂ O (AAS) | Per sample | Rp | 12.000,00 |
| j) H ₂ O ⁻ (Gravimetri) | Per sample | Rp | 10.000,00 |
| 43) AIR SUMUR | | | |
| a) PH (PH-meter) | Per sample | Rp | 8.000,00 |
| b) Temperatur (TCS meter) | Per sample | Rp | 10.000,00 |
| c) DHL (Conductivitimeter) | Per sample | Rp | 8.000,00 |
| d) TDS (Gravimetri) | Per sample | Rp | 8.000,00 |
| e) TSS (Gravimetri) | Per sample | Rp | 12.000,00 |
| f) Salinitas (Salinitimeter) | Per sample | Rp | 4.000,00 |
| g) Kekeruhan (Turbidimetri) | Per sample | Rp | 5.000,00 |
| h) Warna (Spektrofotometri) | Per sample | Rp | 10.000,00 |

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|---|------------|----|-----------|
| i) Asiditas (Volumetri) | Per sample | Rp | 10.000,00 |
| j) Alkalinitas (Volumetri) | Per sample | Rp | 10.000,00 |
| k) Kesadahan ?D (Volumetri) | Per sample | Rp | 10.000,00 |
| l) CL (Volumetri) | Per sample | Rp | 12.000,00 |
| m) SO ₄ (Turbidimetri) | Per sample | Rp | 15.000,00 |
| n) N-NO ₂ (Spektrofotometri) | Per sample | Rp | 15.000,00 |
| o) N-NO ₃ (Spektrofotometri) | Per sample | Rp | 15.000,00 |
| p) H ₃ (Spektrofotometri) | Per sample | Rp | 15.000,00 |
| q) N-total (Keydal-Spektrofotometri) | Per sample | Rp | 30.000,00 |
| r) P-total (Spektrofotometri) | Per sample | Rp | 30.000,00 |
| s) P-PO ₄ (Spektrofotometri) | Per sample | Rp | 15.000,00 |
| t) DO (Volumetri) | Per sample | Rp | 20.000,00 |
| u) BOD (Volumetri) | Per sample | Rp | 30.000,00 |
| v) COD (Volumetri) | Per sample | Rp | 20.000,00 |
| w) Residu total (Gravimetri) | Per sample | Rp | 20.000,00 |
| x) HCO ₃ (Volumetri) | Per sample | Rp | 10.000,00 |
| y) Fenol (Spektofotometri) | Per sample | Rp | 25.000,00 |
| z) Lemak (Spektofotometri) | Per sample | Rp | 25.000,00 |
| aa) Hg (Merkury analyser) | Per sample | Rp | 30.000,00 |
| bb) As (Spektofotometri) | Per sample | Rp | 30.000,00 |
| cc) Pb, Cu, Zn, Fe, Mn, Ni, Cd, Ca, Mg, K, Na (AAS) | Per sample | Rp | 10.000,00 |
| dd) Al (AAS) | Per sample | Rp | 20.000,00 |
| ee) H ₂ S | Per sample | Rp | 10.000,00 |
| ff) CN bebas | Per sample | Rp | 20.000,00 |
| gg) CN total | Per sample | Rp | 30.000,00 |
| hh) CO (Kobalt) masing-masing | Per sample | Rp | 20.000,00 |
| ii) Selenium | Per sample | Rp | 15.000,00 |
| jj) Baron (B) | Per sample | Rp | 15.000,00 |
| kk) Crom (Cr) | Per sample | Rp | 20.000,00 |
| ll) SiO ₂ | Per sample | Rp | 30.000,00 |
| mm) F (Fluor) | Per sample | Rp | 10.000,00 |
| nn) Jasa AAS | Per sample | Rp | 10.000,00 |
| oo) Preparasi | Per sample | Rp | 5.000,00 |
| 44) AIR BOR | | | |
| a) PH (PH-meter) | Per sample | Rp | 8.000,00 |
| b) Temperatur (TCS meter) | Per sample | Rp | 10.000,00 |
| c) DHL (Conductivitimeter) | Per sample | Rp | 8.000,00 |
| d) TDS (Gravimetri) | Per sample | Rp | 8.000,00 |
| e) TSS (Gravimetri) | Per sample | Rp | 12.000,00 |
| f) Salinitas (Salinitimeter) | Per sample | Rp | 4.000,00 |
| g) Kekeruhan (Turbidimetri) | Per sample | Rp | 5.000,00 |
| h) Warna (Spektofotometeri) | Per sample | Rp | 10.000,00 |
| i) Asiditas (Volumetri) | Per sample | Rp | 10.000,00 |
| j) Alkalinitas (Volumetri) | Per sample | Rp | 10.000,00 |
| k) Kesadahan ?D (Volumetri) | Per sample | Rp | 10.000,00 |
| l) CL (Volumetri) | Per sample | Rp | 12.000,00 |
| m) SO ₄ (Turbidimetri) | Per sample | Rp | 15.000,00 |
| n) N-NO ₂ (Spektrofotometri) | Per sample | Rp | 15.000,00 |
| o) N-NO ₃ (Spektrofotometri) | Per sample | Rp | 15.000,00 |

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|-----------------------|---|------------|----|-----------|
| p) | N-NH ₃ (Spektrofotometri) | Per sample | Rp | 15.000,00 |
| q) | N-total (Keydal-Spektrofotometri) | Per sample | Rp | 30.000,00 |
| r) | P-total (Spektrofotometri) | Per sample | Rp | 30.000,00 |
| s) | P-PO ₄ (Spektrofotometri) | Per sample | Rp | 15.000,00 |
| t) | DO (Volumetri) | Per sample | Rp | 20.000,00 |
| u) | BOD (Volumetri) | Per sample | Rp | 30.000,00 |
| v) | COD (Volumetri) | Per sample | Rp | 20.000,00 |
| w) | Residu total (Gravimetri) | Per sample | Rp | 20.000,00 |
| x) | HCO ₃ (Volumetri) | Per sample | Rp | 10.000,00 |
| y) | Fenol (Spektrofotometri) | Per sample | Rp | 25.000,00 |
| z) | Lemak (Spektrofotometri) | Per sample | Rp | 25.000,00 |
| aa) | Hg (Merkury analyser) | Per sample | Rp | 30.000,00 |
| bb) | As (Spektrofotometri) | Per sample | Rp | 30.000,00 |
| cc) | Pb, Cu, Zn, Fe, Mn, Ni, Cd, Ca, Mg, K, Na (AAS) | Per sample | Rp | 10.000,00 |
| dd) | Al (AAS) | Per sample | Rp | 20.000,00 |
| ee) | H ₂ S | Per sample | Rp | 10.000,00 |
| ff) | CN bebas | Per sample | Rp | 20.000,00 |
| gg) | CN total | Per sample | Rp | 30.000,00 |
| hh) | CO (Kobalt) masing-masing | Per sample | Rp | 20.000,00 |
| ii) | Selenium | Per sample | Rp | 15.000,00 |
| jj) | Baron (B) | Per sample | Rp | 15.000,00 |
| kk) | Crom (Cr) | Per sample | Rp | 20.000,00 |
| ll) | SiO ₂ | Per sample | Rp | 30.000,00 |
| mm) | F (Fluor) | Per sample | Rp | 10.000,00 |
| nn) | Jasa AAS | Per sample | Rp | 10.000,00 |
| oo) | Preparasi | Per sample | Rp | 5.000,00 |
| 45) AIR SUNGAI | | | | |
| a) | PH (PH-meter) | Per sample | Rp | 8.000,00 |
| b) | Temperatur (TCS meter) | Per sample | Rp | 10.000,00 |
| c) | DHL (Conductivitimeter) | Per sample | Rp | 8.000,00 |
| d) | TDS (Gravimetri) | Per sample | Rp | 8.000,00 |
| e) | TSS (Gravimetri) | Per sample | Rp | 12.000,00 |
| f) | Salinitas (Salinitimeter) | Per sample | Rp | 4.000,00 |
| g) | Kekeruhan (Turbidimetri) | Per sample | Rp | 5.000,00 |
| h) | Warna (Spektrofotometri) | Per sample | Rp | 10.000,00 |
| i) | Asiditas (Volumetri) | Per sample | Rp | 10.000,00 |
| j) | Alkalinitas (Volumetri) | Per sample | Rp | 10.000,00 |
| k) | Kesadahan ?D (Volumetri) | Per sample | Rp | 10.000,00 |
| l) | CL (Volumetri) | Per sample | Rp | 12.000,00 |
| m) | SO ₄ (Turbidimetri) | Per sample | Rp | 15.000,00 |
| n) | N-NO ₂ (Spektrofotometri) | Per sample | Rp | 15.000,00 |
| o) | N-NO ₃ (Spektrofotometri) | Per sample | Rp | 15.000,00 |
| p) | N-NH ₃ (Spektrofotometri) | Per sample | Rp | 15.000,00 |
| q) | N-total (Keydal-Spektrofotometri) | Per sample | Rp | 30.000,00 |
| r) | P-total (Spektrofotometri) | Per sample | Rp | 30.000,00 |
| s) | P-PO ₄ (Spektrofotometri) | Per sample | Rp | 15.000,00 |
| t) | DO (Volumetri) | Per sample | Rp | 20.000,00 |
| u) | BOD (Volumetri) | Per sample | Rp | 30.000,00 |
| v) | COD (Volumetri) | Per sample | Rp | 20.000,00 |

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|-----------------------|--|------------|----|-----------|
| w) | Residu total (Gravimetri) | Per sample | Rp | 20.000,00 |
| x) | HCO ₃ (Volumetri) | Per sample | Rp | 10.000,00 |
| y) | Fenol (Spektrofotometri) | Per sample | Rp | 25.000,00 |
| z) | Lemak (Spektrofotometri) | Per sample | Rp | 25.000,00 |
| aa) | Hg (Merkury analyser) | Per sample | Rp | 30.000,00 |
| bb) | As (Spektrofotometri) | Per sample | Rp | 30.000,00 |
| cc) | Pb, Cu, Zn, Fe, Mn, Ni, Cd, Ca, Mg, K, Na AAS) | Per sample | Rp | 10.000,00 |
| dd) | Al (AAS) | Per sample | Rp | 20.000,00 |
| ee) | H ₂ S | Per sample | Rp | 10.000,00 |
| ff) | CN bebas | Per sample | Rp | 20.000,00 |
| gg) | CN total | Per sample | Rp | 30.000,00 |
| hh) | CO (Kobalt) masing-masing | Per sample | Rp | 20.000,00 |
| ii) | Selenium | Per sample | Rp | 15.000,00 |
| jj) | Baron (B) | Per sample | Rp | 15.000,00 |
| kk) | Crom (Cr) | Per sample | Rp | 20.000,00 |
| ll) | SiO ₂ | Per sample | Rp | 30.000,00 |
| mm) | F (Fluor) | Per sample | Rp | 10.000,00 |
| nn) | Jasa AAS | Per sample | Rp | 10.000,00 |
| oo) | Preparasi | Per sample | Rp | 5.000,00 |
| 46) AIR LIMBAH | | | | |
| a) | PH (PH-meter) | Per sample | Rp | 8.000,00 |
| b) | Temperatur (TCS meter) | Per sample | Rp | 10.000,00 |
| c) | DHL (Conductivimeter) | Per sample | Rp | 8.000,00 |
| d) | TDS (Gravimetri) | Per sample | Rp | 8.000,00 |
| e) | TSS (Gravimetri) | Per sample | Rp | 12.000,00 |
| f) | Salinitas (Salinitimeter) | Per sample | Rp | 4.000,00 |
| g) | Kekeruhan (Turbidimetri) | Per sample | Rp | 5.000,00 |
| h) | Warna (Spektrofotometri) | Per sample | Rp | 10.000,00 |
| i) | Asiditas (Volumetri) | Per sample | Rp | 10.000,00 |
| j) | Alkalinitas (Volumetri) | Per sample | Rp | 10.000,00 |
| k) | Kesadahan ?D (Volumetri) | Per sample | Rp | 10.000,00 |
| l) | CL (Volumetri) | Per sample | Rp | 12.000,00 |
| m) | SO ₄ (Turbidimetri) | Per sample | Rp | 15.000,00 |
| n) | N-NO ₂ (Spektrofotometri) | Per sample | Rp | 15.000,00 |
| o) | N-NO ₃ (Spektrofotometri) | Per sample | Rp | 15.000,00 |
| p) | N-NH ₃ (Spektrofotometri) | Per sample | Rp | 15.000,00 |
| q) | N-total (Keydal-Spektrofotometri) | Per sample | Rp | 30.000,00 |
| r) | P-total (Spektrofotometri) | Per sample | Rp | 30.000,00 |
| s) | P-PO ₄ (Spektrofotometri) | Per sample | Rp | 15.000,00 |
| t) | DO (Volumetri) | Per sample | Rp | 20.000,00 |
| u) | BOD (Volumetri) | Per sample | Rp | 30.000,00 |
| v) | COD (Volumetri) | Per sample | Rp | 20.000,00 |
| w) | Residu total (Gravimetri) | Per sample | Rp | 20.000,00 |
| x) | HCO ₃ (Volumetri) | Per sample | Rp | 10.000,00 |
| y) | Fenol (Spektrofotometri) | Per sample | Rp | 25.000,00 |
| z) | Lemak (Spektrofotometri) | Per sample | Rp | 25.000,00 |
| aa) | Hg (Merkury analyser) | Per sample | Rp | 30.000,00 |
| bb) | As (Spektrofotometri) | Per sample | Rp | 30.000,00 |

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|-----|--|------------|----|------------|
| cc) | Pb, Cu, Zn, Fe, Mn, Ni, Cd, Ca, Mg, K, Na (AAS) | Per sample | Rp | 10.000,00 |
| dd) | Al (AAS) | Per sample | Rp | 20.000,00 |
| ee) | H ₂ S | Per sample | Rp | 10.000,00 |
| ff) | CN bebas | Per sample | Rp | 20.000,00 |
| gg) | CN total | Per sample | Rp | 30.000,00 |
| hh) | CO (Kobalt) masing-masing | Per sample | Rp | 20.000,00 |
| ii) | Selenium | Per sample | Rp | 15.000,00 |
| jj) | Baron (B) | Per sample | Rp | 15.000,00 |
| kk) | Crom (Cr) | Per sample | Rp | 20.000,00 |
| ll) | SiO ₂ | Per sample | Rp | 30.000,00 |
| mm) | F (Fluor) | Per sample | Rp | 10.000,00 |
| nn) | Jasa AAS | Per sample | Rp | 10.000,00 |
| oo) | Preparasi | Per sample | Rp | 5.000,00 |
| 47) | KESUBURAN TANAH | | | |
| a) | PH.H ₂ O (PH-meter) | Per sample | Rp | 6.000,00 |
| b) | PH.Kcl (PH-meter) | Per sample | Rp | 8.000,00 |
| c) | H ₂ O ⁻ (Gravimetri) | Per sample | Rp | 10.000,00 |
| d) | C-Organik (Volumetri) | Per sample | Rp | 20.000,00 |
| e) | P-HCL (Spektofotometri) | Per sample | Rp | 20.000,00 |
| f) | N-total (Keydal-Spektofotometri) | Per sample | Rp | 30.000,00 |
| g) | P-total (Spektofotometri) | Per sample | Rp | 30.000,00 |
| h) | K-dalam HCL (AAS) | Per sample | Rp | 10.000,00 |
| i) | K-dalam sitrat (AAS) | Per sample | Rp | 10.000,00 |
| j) | KTK (Volumetri) | Per sample | Rp | 30.000,00 |
| k) | Kebutuhan basa (Volumetri) | Per sample | Rp | 20.000,00 |
| l) | Hg (Mercury analyser) | Per sample | Rp | 30.000,00 |
| m) | As (Spektofotometri) | Per sample | Rp | 30.000,00 |
| n) | TiO ₂ (Spektofotometri) | Per sample | Rp | 20.000,00 |
| o) | Pb, Cu, Zn, Fe, Mn, Ki, Cr, AL, TiO ₂ (AAS) | Per sample | Rp | 10.000,00 |
| c. | JASA ANALISIS FISIK MINERAL | | | |
| a) | Preparasi | Per sample | Rp | 12.000,00 |
| b) | Berat jenis (BJ) (Piknometer) | Per sample | Rp | 12.000,00 |
| c) | Bobot isi (Densitometer) | Per sample | Rp | 12.000,00 |
| d) | Bulk Density | Per sample | Rp | 12.000,00 |
| e) | App/True Density | Per sample | Rp | 12.000,00 |
| f) | Kadar air (Gravimetri) | Per sample | Rp | 10.000,00 |
| g) | Daya serap terhadap minyak/ air (Gravimetri) | Per sample | Rp | 10.000,00 |
| h) | Porositas (Gravimetri) | Per sample | Rp | 10.000,00 |
| i) | Luas permukaan (Volumetri) | Per sample | Rp | 20.000,00 |
| j) | KTK (Volumetri) | Per sample | Rp | 40.000,00 |
| k) | Kekentalan/Viscositas (Vistometer) | Per sample | Rp | 15.000,00 |
| l) | PH 10% padatan (PH meter) | Per sample | Rp | 10.000,00 |
| m) | Whiteness (Instrumen) | Per sample | Rp | 15.000,00 |
| n) | Uji Bleaching Power (BP) (Spektofotometri) | Per sample | Rp | 40.000,00 |
| o) | Uji Lumpur Bor | Per sample | Rp | 80.000,00 |
| p) | Ukuran < 400 (Particle Size) | Per sample | Rp | 100.000,00 |
| q) | Aktivasi bentonit (analyzer) | Per sample | Rp | 40.000,00 |

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| d. JASA ANALISIS MINERALOGI | | | |
| 1) Analisis Komposisi Mineral (X-RD) | Per sample | Rp | 70.000,00 |
| 2) Analisis Komposisi Mineral (Petrografi -Mineragrafi) | Per sample | Rp | 70.000,00 |
| 3) Sayatan tipis (Poles) | Per sample | Rp | 40.000,00 |
| 4) Sayatan Poles (Poles) | Per sample | Rp | 40.000,00 |
| 5) Foto mikroskop (Mikroskop) | Per buah | Rp | 15.000,00 |
| 6) Poles Batu Aji (Poles) | Per cm | Rp | 700,00 |
| 7) Kekerasan Struktur Mikro (Mikroskop) | Per sample | Rp | 50.000,00 |
| 8) Distribusi besar butiran (Mikroskop) | Per sample | Rp | 150.000,00 |
| e. JASA RESIDU Kadar Air | Per sample | Rp | 35.000,00 |
| f. JASA INTERPRETASI/PENDAPAT | Per konsultasi | Rp | 50.000,00 |
| 2. ANALISIS DAN PENGUJIAN BATUBARA | | | |
| JASA ANALISIS | | | |
| 1) Preparasi Contoh (ISO 1988 ASTM D.2013) | Per sample | Rp | 25.000,00 |
| 2) Proksimat/Proximate | | | |
| a) Air Lembab/Air Dried Moisture(ISO 331 ASTM D.3173) | Per sample | Rp | 10.000,00 |
| b) Abu/Ash (ISO 1171 ASTM D.3174) | Per sample | Rp | 15.000,00 |
| c) Zat terbang/Volatile Matter (ISO 562 ASTM D.3175) | Per sample | Rp | 25.000,00 |
| 3) Ultimat/Ultimate | | | |
| a) Karbon Total/Total Carbon (ISO 625 ASTM D.3178) | Per sample | Rp | 75.000,00 |
| b) Hidrogen Total/Total Hydrogen (ISO 625 ASTM D.3178) | Per sample | Rp | 75.000,00 |
| c) Nitrogen/Nitrogen (ISO 332 ASTM D.3179) | Per sample | Rp | 75.000,00 |
| d) Belerang Total/Total Sulphur (ISO 351 & ASTM D.3177 & ISO 334 ASTM D.4239) | Per sample | Rp | 75.000,00 |
| e) Karbon Dioksida/Carbon Dioksida (ASTM D.1756) | Per sample | Rp | 75.000,00 |
| 4) Klor / Chlorine (ISO 587 ASTM D.2361) | Per sample | Rp | 75.000,00 |
| 5) Posfor / Phosphor (ASTM D.2795) | Per sample | Rp | 50.000,00 |
| 6) Nilai Kalor / Calorific Value (ISO 1928 ASTM D.2015) | Per sample | Rp | 50.000,00 |
| 7) Bentuk Belerang / Form of Sulphur (ISO 157 ASTM D.2492) | | | |
| a) Belerang Sulfat / Sulfate Sulphur | Per sample | Rp | 75.000,00 |
| b) Belerang Pirit / Pyrite Sulphur | Per sample | Rp | 50.000,00 |
| 8) Titik Leleh Abu / Ash Fusibility Temperatures (Oxidising / Reducing) (ISO 540 ASTM D.1857) | Per sample | Rp | 200.000,00 |
| 9) Sifat Ketergerusan (HGI)/Hardgrove Grindability Index (ISO 5074 ASTM D.409) | Per sample | Rp | 75.000,00 |
| 10) Tipe Kokas (Gray King Coke Type) | Per sample | Rp | 50.000,00 |
| 11) Nilai Muai Bebas (FSI) / Free Swelling Index (ISO 501 ASTM D.720) | Per sample | Rp | 20.000,00 |
| 12) Berat Jenis Sesungguhnya (TSG) /True Spesific Gravity (ISO 1014 ASTM D.167) | Per sample | Rp | 20.000,00 |
| 13) Porositas / Porosity (ISO 1014 ASTM D.167) | Per sample | Rp | 20.000,00 |

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| 14) Bulk Density (ISO 567 ASTM D.) | Per sample | Rp | 25.000,00 |
| 15) Drop Shatter Test (ISO 616 ASTM D.440) | Per sample | Rp | 50.000,00 |
| 16) Analisa Ayak / Size Analysis (Per fraksi) (ISO 1953 ASTM D. 410) | Per sample | Rp | 25.000,00 |
| 17) Petrografi / Petrography (Vitrine, Inertinite, Exinite) | Per sample | Rp | 250.000,00 |
| 18) Komposisi Abu / Ash Analysis (SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃ , CaO, MgO, K ₂ O, Na ₂ O, TiO ₂ , P ₂ O ₅ , MnO ₂ , SO ₃) | Per sample | Rp | 200.000,00 |
| 3. ANALISIS DAN PENGUJIAN MEKANIKA BATUAN | | | |
| a. JASA REPARASI | | | |
| 1) Coring | Per sample | Rp | 50.000,00 |
| 2) Pemotongan | Per sample | Rp | 50.000,00 |
| 3) Poles | Per sample | Rp | 50.000,00 |
| 4) Pembuatan Split | Per sample | Rp | 50.000,00 |
| b. JASA ANALISIS SIFAT FISIK | | | |
| 1) Kadar air | Per sample | Rp | 20.000,00 |
| 2) Berat isi | Per sample | Rp | 20.000,00 |
| 3) Berat jenis | Per sample | Rp | 20.000,00 |
| 4) Daya serap air | Per sample | Rp | 20.000,00 |
| 5) Kekerasan | Per sample | Rp | 50.000,00 |
| 6) Slake durability | Per sample | Rp | 60.000,00 |
| c. JASA ANALISIS SIFAT MEKANIK | | | |
| 1) Kuat Tekan | Per sample | Rp | 120.000,00 |
| 2) Kuat Tarik | Per sample | Rp | 60.000,00 |
| 3) Triaxial | Per sample | Rp | 150.000,00 |
| 4) Kuat geser Residu | Per sample | Rp | 175.000,00 |
| 5) Titik load | Per sample | Rp | 65.000,00 |
| 6) Ultrasonic/dynamic poissons ratio | Per sample | Rp | 65.000,00 |
| d. JASA ANALISIS AGREGAT | | | |
| 1) Daya aus gesek dengan bejana Los Angeles | Per sample | Rp | 120.000,00 |
| 2) Daya aus tekan dengan bejana Rudeloff | Per sample | Rp | 120.000,00 |
| 3) Soundnes dgn larutan natrium sulfat (Na ₂ SO ₄) | Per sample | Rp | 120.000,00 |
| 4. ANALISIS DAN PENGUJIAN MEKANIKA TANAH | | | |
| a. JASA PREPARASI | | | |
| 1) Pencampuran | Per sample | Rp | 40.000,00 |
| 2) Pembagian | Per sample | Rp | 40.000,00 |
| 3) Penggerusan | Per sample | Rp | 40.000,00 |
| 4) Pencetakan | Per sample | Rp | 40.000,00 |
| b. JASA ANALISIS SIFAT FISIK | | | |
| 1) Kadar air | Per sample | Rp | 20.000,00 |
| 2) Berat isi | Per sample | Rp | 20.000,00 |
| 3) Berat jenis | Per sample | Rp | 20.000,00 |
| 4) Analisa ayak | Per sample | Rp | 40.000,00 |
| 5) Hydrometer | Per sample | Rp | 45.000,00 |
| 6) Atterberg | Per sample | Rp | 40.000,00 |
| c. JASA ANALISIS SIFAT MEKANIK | | | |
| 1) Kuat tekan | Per sample | Rp | 40.000,00 |
| 2) Kuat geser | Per sample | Rp | 75.000,00 |

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|---|-------------------|----|--------------|
| 3) Konsolidasi | Per sample | Rp | 100.000,00 |
| 4) Permeabilitas | Per sample | Rp | 100.000,00 |
| 5) Triaxial UU | Per sample | Rp | 100.000,00 |
| 6) Triaxial CU | Per sample | Rp | 200.000,00 |
| 7) Compact Std. | Per sample | Rp | 100.000,00 |
| 8) Compact Mdf. | Per sample | Rp | 150.000,00 |
| 9) CBR langsung | Per sample | Rp | 120.000,00 |
| 10) CBR direndam | Per sample | Rp | 180.000,00 |
| 11) Soundir | Per sample | Rp | 300.000,00 |
| 5. ANALISIS DAN PENGUJIAN PENGOLAHAN MINERAL | | | |
| JASA ANALISIS | | | |
| 1) Pengeringan udara/oven | Per kilo gram | Rp | 2.000,00 |
| 2) Crushing | Per kilo gram | Rp | 3.000,00 |
| 3) Blending | Per kilo gram | Rp | 3.000,00 |
| 4) Sampling/splitting | Per kilo gram | Rp | 3.000,00 |
| 5) Gerus (10 mesh - 35 mesh) | Per kilo gram | Rp | 6.000,00 |
| 6) Analisa ayak | Per fraksi | Rp | 6.000,00 |
| 7) Uji liberasi | Per fraksi | Rp | 15.000,00 |
| 8) Uji giling | Per kilo gram/uji | Rp | 25.000,00 |
| 9) Uji ketergilingan/Bond index | Per sample | Rp | 500.000,00 |
| 10) Uji tabling | Per uji | Rp | 25.000,00 |
| 11) Uji jigging | Per uji | Rp | 25.000,00 |
| 12) Uji humprey spiral | Per uji | Rp | 25.000,00 |
| 13) Uji magnetik | Per uji | Rp | 15.000,00 |
| 14) Uji elektronik | Per uji | Rp | 15.000,00 |
| 15) Uji pencucian | Per kilo gram | Rp | 6.000,00 |
| 16) Uji Sluicing | Per uji | Rp | 25.000,00 |
| 17) Uji flotasi | Per uji | Rp | 50.000,00 |
| 18) Uji pelarutan mineral industri | Per gram | Rp | 6.000,00 |
| 19) Kristalisasi | Per gram | Rp | 7.000,00 |
| 20) Penguapan | Per liter | Rp | 15.000,00 |
| 21) Uji peletasi | Per kilo gram | Rp | 40.000,00 |
| 22) Uji pasir cetak | Per sample | Rp | 250.000,00 |
| 23) Uji pemanggangan/oksidasi | Per sample | Rp | 300.000,00 |
| 24) Uji tumbler | Per sample | Rp | 25.000,00 |
| 25) Uji desintegrasi reduksi | Per sample | Rp | 3.000.000,00 |
| 26) Uji reduksi | Per sample | Rp | 3.000.000,00 |
| 27) Uji swelling reduksi | Per sample | Rp | 3.000.000,00 |
| 28) Uji peleburan ferous | Per kilo gram | Rp | 200.000,00 |
| 29) Uji peleburan non-ferous | Per kilo gram | Rp | 200.000,00 |
| 30) Pembuatan paduan | Per kilo gram | Rp | 200.000,00 |
| 31) Amalgamasi | Per kilo gram | Rp | 100.000,00 |
| 32) Sianidasi | Per sample | Rp | 100.000,00 |
| 33) Pelarutan dengan reagen lain | Per sample | Rp | 80.000,00 |
| 34) Carbon in pulp | Per sample | Rp | 80.000,00 |
| 35) Bioleaching | Per sample | Rp | 120.000,00 |
| 36) Uji elektroplating nikel | Per cm | Rp | 10.000,00 |
| 37) Uji elektroplating krom | Per cm | Rp | 10.000,00 |
| 38) Uji elektroplating tembaga | Per cm | Rp | 9.000,00 |
| 39) Elektrowining | Per gram | Rp | 10.000,00 |

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| C. PUSAT PENELITIAN DAN PENGEMBANGAN GEOLOGI | | | |
| 1. JASA LABORATORIUM GEOLOGI DAN GEOFISIKA | | | |
| a. GEOKRONOLOGI (GEOCHRONOLOGY) | | | |
| 1) Kalium Argon (Potassium Argon) | | | |
| a) Pemisahan Mineral (Mineral Separation) | Per sample | US\$ | 90.00 |
| b) Preparasi (Preparation) | Per sample | US\$ | 110.00 |
| c) Penentuan Umur (Age Determination) | Per sample | US\$ | 160.00 |
| 2) Jejak Belah (Fission Track) | | | |
| a) Pemisahan Mineral (Mineral Separation) | Per sample | US\$ | 40.00 |
| b) Preparasi (Preparation) | Per sample | US\$ | 60.00 |
| c) Penentuan Umur (Age Determination) | Per sample | US\$ | 140.00 |
| 3) Radiokarbon (Radiocarbon) | | | |
| a) Preparasi (Preparation) | Per sample | US\$ | 80.00 |
| b) Penentuan Umur (Age Determination) | Per sample | US\$ | 160.00 |
| b. PETROLOGI DAN MINERALOGI (PETROLOGY AND MINERALOGY) | | | |
| 1) Preparasi Percontoh (Sample Preparation) | | | |
| a) Sayatan Tipis Standar (Standard Thin Section) | Per sample | US\$ | 10.00 |
| b) Impregnation, Blue-dyed epoxy & Carbonate Stain | Per sample | US\$ | 15.00 |
| c) Sayatan Tipis Poles (Polished Thin Section) | Per sample | US\$ | 20.00 |
| d) Pelat Inklusi Fluida (Fluid Inclusion Plate) | Per sample | US\$ | 25.00 |
| e) Pembuatan Butir Terpoles (Polished Mount) | Per sample | US\$ | 10.00 |
| 2) Analisis contoh (Sample Analysis) | | | |
| a) Analisis Petrografi (Petrographic Analysis) | Per sample | US\$ | 25.00 |
| b) Pemerian Umum (Basic Description) | Per sample | US\$ | 55.00 |
| c) Pemerian Detail (Detailed Description) | Per sample | US\$ | 55.00 |
| d) Analisis Mineragrafi (Mineragraphic Analysis) | Per sample | US\$ | 110.00 |
| e) Petrologi dan Mineragrafi (Combined Petrologic and Mineragraphic Analyses) | Per sample | US\$ | 125.00 |
| f) Analisis Inklusi Fluida (Fluid Inclusion) | Per sample | US\$ | 140.00 |
| 3) Analisis SEM (Scanning Electron Microscope) | Per sample | US\$ | 150.00 |
| 4) Fotomikrografi (Photomicrograph) Sayatan Tipis | | | |
| a) Hitam dan Putih (Black and White) | | | |
| (1) Cetakan Pertama (First Print) | Per copy | US\$ | 10.00 |
| (2) Cetakan Ekstra (Extra copies) | Per copy | US\$ | 2.00 |
| b) Berwarna (Colour) | | | |
| (1) Cetakan Pertama (First Print) | Per copy | US\$ | 15.00 |
| (2) Cetakan Ekstra (Extra copies) | Per copy | US\$ | 3.00 |
| c) Sedimentologi (Sedimentology) | | | |
| (1) Analisis Besar Butir (Grain Size Analysis) | Per sample | US\$ | 100.00 |
| (2) Analisis Mineral Berat (Heavy Mineral Analysis) | Per sample | US\$ | 180.00 |
| c. PALEONTOLOGI (PALEONTOLOGY) | | | |
| 1) Mikropaleontologi (Micropaleontology) | | | |
| a) Analisis Foraminifera (Foraminiferal Analysis) | Per sample | US\$ | 60.00 |

| | | | |
|---|------------|------|--------|
| b) Analisis Nanoplanton (Calcareous Nannoplankton) | Per sample | US\$ | 65.00 |
| c) Mikrograf Pemayar Elektron (Scanning Electron Micrograph) fosil mikro | Per sample | US\$ | 25.00 |
| 2) Palinologi (Palynology) | | | |
| a) Analisis Kualitatif (Qualitative Palynology) | Per sample | US\$ | 100.00 |
| b) Analisis Kuantitatif (Quantitative Palynology) | Per sample | US\$ | 125.00 |
| c) Paleontologi Invertebrata (Invertebrate Paleontology) | | | |
| (1) Moluska (Moluscs) | Per sample | US\$ | 50.00 |
| (2) Brakhiopoda (Brachiopods) | Per sample | US\$ | 50.00 |
| d) Paleontologi Vertebrata (Vertebrate Paleontology) | | | |
| (1) Fosil hominid dan non hominid | Per sample | US\$ | 50.00 |
| (2) Replika specimen hominid | Per sample | US\$ | 500.00 |
| d. GEOKIMIA (GEOCHEMISTRY) | | | |
| 1) Analisis Geokimia Batuan (Major and Trace Unsurs), dengan AAS dan Konvensional | | | |
| a) SiO ₂ | Per sample | US\$ | 2.00 |
| b) Al ₂ O ₃ | Per sample | US\$ | 2.00 |
| c) Fe ₂ O ₃ | Per sample | US\$ | 2.00 |
| d) FeO | Per sample | US\$ | 2.00 |
| e) MnO | Per sample | US\$ | 2.00 |
| f) CaO | Per sample | US\$ | 2.00 |
| g) MgO | Per sample | US\$ | 2.00 |
| h) TiO ₂ | Per sample | US\$ | 2.00 |
| i) Na ₂ O | Per sample | US\$ | 2.00 |
| j) K ₂ O | Per sample | US\$ | 2.00 |
| k) P ₂ O ₅ | Per sample | US\$ | 2.00 |
| l) SO ₃ | Per sample | US\$ | 2.00 |
| m) H ₂ O ⁻ | Per sample | US\$ | 1.00 |
| n) H ₂ O ⁺ | Per sample | US\$ | 2.00 |
| o) HD | Per sample | US\$ | 1.00 |
| p) Ba | Per sample | US\$ | 2.00 |
| q) Sr | Per sample | US\$ | 2.00 |
| r) Cr | Per sample | US\$ | 2.00 |
| s) Co | Per sample | US\$ | 1.00 |
| t) Ni | Per sample | US\$ | 1.00 |
| u) Cu | Per sample | US\$ | 1.00 |
| v) Pb | Per sample | US\$ | 1.00 |
| w) Zn | Per sample | US\$ | 1.00 |
| x) Ag | Per sample | US\$ | 1.00 |
| y) Au | Per sample | US\$ | 2.50 |
| z) Hg | Per sample | US\$ | 1.00 |
| aa) As | Per sample | US\$ | 2.00 |
| bb) Sb | Per sample | US\$ | 1.00 |
| cc) Li | Per sample | US\$ | 1.00 |
| dd) Cs | Per sample | US\$ | 1.00 |
| ee) Cd | Per sample | US\$ | 1.00 |

2) Analisis Geokimia Air (Geochemical Analysis-Waters)

a) Analisis Percontoh Air

| | | | |
|---|------------|------|------|
| (1) Kekeruhan (Turbidity) | Per sample | US\$ | 1.00 |
| (2) Warna (Colour) | Per sample | US\$ | 1.00 |
| (3) Bau (Odour) | Per sample | US\$ | 1.00 |
| (4) Daya Hantar Listrik (Conductivity) | Per sample | US\$ | 1.00 |
| (5) PH (derajat keasaman) | Per sample | US\$ | 1.00 |
| (6) Kesadahan (jumlah CaCO_3) | Per sample | US\$ | 1.50 |
| (7) Kalsium (Ca^{2+}) | Per sample | US\$ | 1.00 |
| (8) Magnesium (Mg^{2+}) | Per sample | US\$ | 1.00 |
| (9) Besi (Fe^{3+}) | Per sample | US\$ | 2.00 |
| (10) Mangan (Mn^{2+}) | Per sample | US\$ | 2.00 |
| (11) Kalium (K^+) | Per sample | US\$ | 1.00 |
| (12) Natrium (Na^+) | Per sample | US\$ | 1.00 |
| (13) Litium (Li^{2+}) | Per sample | US\$ | 1.00 |
| (14) Karbonat (CO_3^{2+}) | Per sample | US\$ | 1.00 |
| (15) Bikarbonat (CO_3^-) | Per sample | US\$ | 1.00 |
| (16) Karbon dioksida (CO_2) | Per sample | US\$ | 1.00 |
| (17) Klorida (Cl) | Per sample | US\$ | 2.50 |
| (18) Sulfat (SO_4^{2+}) | Per sample | US\$ | 1.00 |
| (19) Nitrogen-Nitrit (N-NO_2^{2-}) | Per sample | US\$ | 1.00 |
| (20) Nitrogen-Nitrat (N-NO_3^{2-}) | Per sample | US\$ | 2.00 |
| (21) Silika (SiO_2) | Per sample | US\$ | 2.00 |
| (22) Zat Organik (KMnO_4) | Per sample | US\$ | 1.50 |
| (23) Zat Padat Terlarut | Per sample | US\$ | 1.00 |

b) Analisis Logam Berat Percontoh Air

| | | | |
|--------------------|------------|------|-------|
| (1) Tembaga (Cu) | Per sample | US\$ | 10.00 |
| (2) Timbal (Pb) | Per sample | US\$ | 10.00 |
| (3) Seng (Zn) | Per sample | US\$ | 10.00 |
| (4) Krom (Cr) | Per sample | US\$ | 10.00 |
| (5) Kobal (Co) | Per sample | US\$ | 10.00 |
| (6) Nikel (Ni) | Per sample | US\$ | 10.00 |
| (7) Aluminium (Al) | Per sample | US\$ | 3.00 |
| (8) Selenium (Se) | Per sample | US\$ | 5.00 |
| (9) Arsen (As) | Per sample | US\$ | 3.00 |
| (10) Merkuri (Hg) | Per sample | US\$ | 2.00 |
| (11) Cadmium (Cd) | Per sample | US\$ | 2.00 |

c) Analisis Logam Berat Percontoh Lumpur

| | | | |
|--------------------|------------|------|-------|
| (1) Tembaga (Cu) | Per sample | US\$ | 2.00 |
| (2) Timbal (Pb) | Per sample | US\$ | 2.00 |
| (3) Seng (Zn) | Per sample | US\$ | 2.00 |
| (4) Krom (Cr) | Per sample | US\$ | 3.00 |
| (5) Kobal (Co) | Per sample | US\$ | 2.00 |
| (6) Nikel (Ni) | Per sample | US\$ | 2.00 |
| (7) Aluminium (Al) | Per sample | US\$ | 4.00 |
| (8) Selenium (Se) | Per sample | US\$ | 7.00 |
| (9) Arsen (As) | Per sample | US\$ | 45.00 |

| | | | |
|---|------------|------|------------|
| e. GEOFISIKA (GEOPHYSICS) | | | |
| Fisika Batuan (Rock Physics) | | | |
| a) Density | Per sample | US\$ | 20.00 |
| b) Porosity | Per sample | US\$ | 20.00 |
| c) Seismic Wave Velocity | Per sample | US\$ | 40.00 |
| d) Magnetic Susceptibility | Per sample | US\$ | 20.00 |
| D. PUSAT PENELITIAN DAN PENGEMBANGAN GEOLOGI KELAUTAN | | | |
| 1. JASA LABORATORIUM | | | |
| a. Sedimen Dasar Laut | | | |
| 1) Mineral | | | |
| a) Grain Size (Sieving Analyses) | Per sample | Rp | 50.000,00 |
| b) Silt-clay content (Pipette Analyses) | Per sample | Rp | 50.000,00 |
| c) Heavy Mineral Analyses (Bromoform) | Per sample | Rp | 70.000,00 |
| d) Smear Slide Analyses (Petrography) | Per sample | Rp | 20.000,00 |
| e) Micropaleontology (Microscopic iden.) | Per sample | Rp | 150.000,00 |
| f) Major Unsurs (Geochemical analyses) | Per sample | Rp | 900.000,00 |
| g) Au/Ag Content (Fire Assay) | Per sample | Rp | 181.000,00 |
| h) Au/Ag Content (Atomic Adsorption Spectrometer (AAS)) | Per sample | Rp | 182.000,00 |
| i) Pollen Analyses (Microscopic iden) | Per sample | Rp | 181.000,00 |
| j) Rare Earth Unsurs (Inductively Coupled Plasma (ICP)) | Per sample | Rp | 150.000,00 |
| k) Minerals (Scanning Electron Microscope (SEM)) | Per sample | Rp | 150.000,00 |
| l) Clay Minerals (XRD) | Per sample | Rp | 100.000,00 |
| m) Heavy Metal Analyses (Pollutant Unsurs) (Inductively Coupled Plasma (ICP)) | Per sample | Rp | 150.000,00 |
| n) Coldstorage (sample preparation collecting and packing) (Coldstorage (0-3°C)) | Per sample | Rp | 400.000,00 |
| 2) GEOTEKNIK KELAUTAN | | | |
| a) Atterberglimit test (grainsize, water content, liquid, plastic and plasticity limit)(ASTM D4318) | Per sample | Rp | 300.000,00 |
| b) Spesific gravity (ASTM D70) | Per sample | Rp | 75.000,00 |
| c) Consolidation (ASTM D4767) | Per sample | Rp | 150.000,00 |
| d) Lab vane shear test (ASTM D4767) | Per sample | Rp | 200.000,00 |
| e) Triaxial test CU, UU, CD, ciclic (ASTM D4648) | Per sample | Rp | 250.000,00 |
| f) Calcium carbonate content (ASTM D4373) | Per sample | Rp | 175.000,00 |
| Moisture penetration resistance of fine grained soil (ASTM D1558) | Per sample | Rp | 150.000,00 |
| b. AIR LAUT DAN SEDIMEN SUSPENSI | | | |
| 1) FISIKA KIMIA | | | |
| a) Salinity (Salinitimeter) | Per sample | Rp | 50.000,00 |
| b) Acidity (pH) (pH-meter) | Per sample | Rp | 65.000,00 |
| c) Chemical Oxygen Demand (COD) (Volumetry) | Per sample | Rp | 80.000,00 |
| d) Total Dissolved Solids (TDS) (Gravimetry) | Per sample | Rp | 85.000,00 |
| e) Suspended Solids (SS) (Gravimetry) | Per sample | Rp | 75.000,00 |
| f) Alkalinity (Volumetry) | Per sample | Rp | 65.000,00 |

| | | | |
|--|------------|----|-----------|
| g) Dissolved Oxygen (DO ₂) (Volumetry) | Per sample | Rp | 70.000,00 |
| h) Chlorite (Cl ₂) (Volumetry) | Per sample | Rp | 85.000,00 |
| i) Carbon dioxide (CO ₂) | Per sample | Rp | 90.000,00 |
| j) Electric Conductivity | Per sample | Rp | 85.000,00 |
| k) Total N ions (Spectrophotometry) | Per sample | Rp | 75.000,00 |
| l) Sulphide ion (Trubidity) | Per sample | Rp | 60.000,00 |
| m) Ferrous/ferric ion | Per sample | Rp | 60.000,00 |
| n) Mn ion (AAS) | Per sample | Rp | 90.000,00 |
| o) Bacterium species (especially ferrous and sulphurous) | Per sample | Rp | 95.000,00 |
| p) Total Oxygen Content (TOC) | Per sample | Rp | 85.000,00 |
| 2) SUSPENDED SEDIMENT | | | |
| a) Spesific Gravity (Piknometer) | Per sample | Rp | 50.000,00 |
| b) Sediment Content(Gravimetry) | Per sample | Rp | 65.000,00 |

E. PUSAT PENELITIAN DAN PENGEMBANGAN TEKNOLOGI ENERGI DAN KETENAGALISTRIKAN

1. KETENAGALISTRIKAN

a. JASA ANALISIS LABORATORIUM

| | | | |
|--|--------------------------|------|--------|
| 1) Minyak Trafo Pakai (4 parameter) | Per sample | US\$ | 40.00 |
| 2) Minyak Trafo Pakai (6 parameter) | Per sample | US\$ | 70.00 |
| 3) Minyak Trafo Baru (7 parameter) | Per sample | US\$ | 61.00 |
| 4) Minyak Trafo Baru (9 parameter) | Per sample | US\$ | 114.00 |
| 5) Minyak Isolasi Kabel (7 parameter) | Per sample | US\$ | 61.00 |
| 6) Minyak Isolasi Kabel (9 Parameter) | Per sample | US\$ | 111.00 |
| 7) Gas Terlarut Dalam Minyak (9 parameter) | Per sample | US\$ | 85.00 |
| 8) Gas Terlarut dalam Minyak (10 parameter) | Per sample | US\$ | 100.00 |
| 9) Minyak Pelumas Mesin (18 parameter) | Per sample | US\$ | 116.00 |
| 10) Minyak Pelumas Diesel (7 parameter) | Per sample | US\$ | 70.00 |
| 11) Minyak Pelumas Diesel (6 parameter) | Per sample | US\$ | 70.00 |
| 12) Mesin Pelumas Hidraulik (10 parameter) | Per sample | US\$ | 60.00 |
| 13) Minyak Pelumas Hidraulik (7 parameter) | Per sample | US\$ | 83.00 |
| 14) Minyak Pelumas Turbin (9 parameter) | Per sample | US\$ | 68.00 |
| 15) Minyak Pelumas Turbin (7 parameter) | Per sample | US\$ | 111.00 |
| 16) Minyak Lumas / BBM | Per sample | US\$ | 11.00 |
| Kandungan Logam untuk 1 unsur | | | |
| 17) Bahan Bakar Minyak HSD (12 parameter) | Per sample | US\$ | 110.00 |
| 18) BBM HSD / MFO (8 parameter) | Per sample | US\$ | 133.00 |
| 19) Bahan Bakar Minyak HSD (18 parameter) | Per sample | US\$ | 132.00 |
| 20) Minyak HSD unutm Komissioning (PLTD) (3 parameter) | Per sample | US\$ | 70.00 |
| 21) Bahan Bakar MFO (18 parameter) | Per sample | US\$ | 120.00 |
| 22) Bahan Bakar MFO (19 parameter) | Per sample / 2 liter | US\$ | 138.00 |
| 23) Logam Bahan/Kawat Penghantar (3 parameter) | Per sample / 50 gram | US\$ | 56.00 |
| 24) Air Pendingin PLTD (4 parameter) | Per sample / 5 lt | US\$ | 89.00 |
| 25) Deposit Kerak (2 parameter) | Per sample / 50 gram | US\$ | 56.00 |
| 26) Grease / Gemuk Pelumas(Dropping Titik) | Per sample / 250 gram | US\$ | 33.00 |

| | | | |
|---|-------------------------|-------|-------|
| 27) Bahan Dasar Alumunium (Analisis Komposisi) | Per sample / 50 gram | US\$ | 26.00 |
| 28) Bahan Dasar Besi/Baja (tanpa C, P, S) (Analisis Komposisi) | Per sample / 50 gram | US\$ | 27.00 |
| 29) Bahan Dasar Paduan Tembaga (Analisis Komposisi) | Per sample / 50 gram | US\$ | 23.00 |
| 30) Bahan Dasar Galvanis (Analisis Komposisi) | Per sample / 50 gram | US\$ | 18.00 |
| 31) Bahan Tembaga (Analisis Komposisi) | Per sample / 50 gram | US\$ | 25.00 |
| 32) Lapisan Tembaga/Nikel pada Konektor (Analisis Komposisi) | Per sample / 50 gram | US\$ | 23.00 |
| 33) Lapisan Seng pada Baja (U Bold, Baut, Galvanis) (Analisis Komposisi) | Per sample / 50 gram | US\$ | 23.00 |
| 34) Kawat Penghantar Listrik Besi/Baja (tanpa C, P, S) (Analisis Komposisi) | Per sample / 50 gram | US\$ | 27.00 |
| 35) Kawat Penghantar Listrik Tembaga (Analisis Komposisi) | Per sample / 50 gram | US\$ | 25.00 |
| 36) Kawat Penghantar Listrik Alumunium (Analisis Komposisi) | Per sample / 50 gram | US\$ | 31.00 |
| 37) Air Boile | Per sample / 50 gram | US\$ | 27.00 |
| 38) Air Pendingin PLTD | Per sample / 5 lt | US\$ | 34.00 |
| 39) Deposit/Kerak | Per sample / 10 gram | US\$ | 37.00 |
| 40) Debu | Per sample | US\$ | 62.00 |
| b. JASA KALIBARASI | | | |
| 1) METER ARUS | | | |
| a) Ampere Meter (AC) | | | |
| (1) S.d. kelas 0,2 | Per unit | US\$ | 88.00 |
| (2) kelas > 0,2 | Per unit | US\$ | 33.00 |
| (3) Multi Range | Per unit | US\$ | 59.00 |
| b) Ampere Meter (DC) | | | |
| (1) s.d. kelas 0,2 | Per unit | US\$ | 34.00 |
| (2) kelas > 0,2 | Per unit | US\$ | 32.00 |
| (3) Multi Range | Per unit | US\$ | 57.00 |
| c) Current Transformator TR | | | |
| d) Current Transformator TM | Per unit | US\$ | 86.00 |
| e) Transduser Arus | | | |
| f) Coulum Meter | Per unit | US\$ | 44.00 |
| f) Coulum Meter | | | |
| Per unit | US\$ | 34.00 | |
| 2) METER TEGANGAN | | | |
| a) AC Volt Meter (0 s/d 1000 V) | | | |
| (1) s.d. kelas 0,2 | Per unit | US\$ | 37.00 |
| (2) kelas > 0,2 | Per unit | US\$ | 33.00 |
| (3) Multi Range | Per unit | US\$ | 59.00 |
| b) DC Volt Meter (1 sd 1000 V) | | | |
| (1) s.d. kelas 0,2 | Per unit | US\$ | 34.00 |
| (2) kelas > 0,2 | Per unit | US\$ | 32.00 |

| | | | |
|--|----------|------|--------|
| (3) Multi Range | Per unit | US\$ | 57.00 |
| c) Transduser Tegangan | Per unit | US\$ | 45.00 |
| d) Alat Uji Tegangan Tinggi AC (Delectric tester,sparktester/withstand/voltagetester/resonant test set/breakdown voltage tester) | | | |
| (1) s.d. kelas 0,2 | Per unit | US\$ | 84.00 |
| (2) kelas > 0,2 | Per unit | US\$ | 137.00 |
| (3) Multi Range | Per unit | US\$ | 137.00 |
| e) HV Resonance Test Set + Partial Discharge Detector | Per unit | US\$ | 219.00 |
| f) Impuls Tester | Per unit | US\$ | 230.00 |
| g) Oil Dielectric Tester | Per unit | US\$ | 97.00 |
| h) Potensial Transformator TR | Per unit | US\$ | 66.00 |
| i) Potensial Transformator TM | Per unit | US\$ | 100.00 |
| j) Holiday Detector | Per unit | US\$ | 74.00 |
| c. JASA BESARAN DAYA/ENERGI | | | |
| a) Watt/Var Meter Fasa Tunggal (Analog) | | | |
| (1) sd kelas 0,2 | Per unit | US\$ | 42.00 |
| (2) kelas > 0,2 | Per unit | US\$ | 35.00 |
| b) Watt/Var Meter Fasa Tiga (Analog) | | | |
| (1) sd kelas 0,2 | Per unit | US\$ | 44.00 |
| (2) kelas > 0,2 | Per unit | US\$ | 35.00 |
| c) Watt/Var Transduser Fasa Tunggal | | | |
| (1) sd kelas 0,2 | Per unit | US\$ | 42.00 |
| (2) kelas > 0,2 | Per unit | US\$ | 35.00 |
| d) Watt/Var Transduser Fasa Tiga | | | |
| (1) sd kelas 0,2 | Per unit | US\$ | 54.00 |
| (2) kelas > 0,2 | Per unit | US\$ | 47.00 |
| e) Watt/Var Hour Meter Fasa Tunggal | | | |
| (1) sd kelas 0 | Per unit | US\$ | 68.00 |
| (2) kelas > 0 | Per unit | US\$ | 54.00 |
| (3) kelas 2,0 (Double Register) | Per unit | US\$ | 63.00 |
| f) Watt/Var Hour Meter Fasa Tiga | | | |
| (1) sd kelas 0 | Per unit | US\$ | 68.00 |
| (2) kelas > 0 | Per unit | US\$ | 54.00 |
| (3) kelas 2,0 (Double Register) | Per unit | US\$ | 63.00 |
| g) Power Factor Meter | | | |
| (1) Jenis Portable | Per unit | US\$ | 42.00 |
| (2) Jenis Panel | Per unit | US\$ | 36.00 |
| h) Phase Shifter | Per unit | US\$ | 43.00 |
| i) Phase Angel Meter | Per unit | US\$ | 43.00 |
| j) Phase Detector | Per unit | US\$ | 31.00 |
| d. METER TAHANAN | | | |
| 1) Precision Double Bridge | Per unit | US\$ | 103.00 |
| 2) Portable Double Bridge | Per unit | US\$ | 103.00 |
| 3) Wheatstone Bridge | Per unit | US\$ | 74.00 |
| 4) Ground Resistance Tester atau Earth Tester | Per unit | US\$ | 58.00 |

| | | | |
|--|----------|------|--------|
| 5) Micro Ohm Meter | Per unit | US\$ | 70.00 |
| 6) Insulation Tester | | | |
| a) sd 1000 Volt | Per unit | US\$ | 47.00 |
| b) 1000 Volt sd 5000 Volt | Per unit | US\$ | 49.00 |
| 7) Decade Resistor | | | |
| a) Jenis Box Presisi | Per unit | US\$ | 63.00 |
| b) Jenis Standard Resistor | Per unit | US\$ | 44.00 |
| e. MULTI FUNCTION METER | | | |
| 1) Multimeter (AVO Meter) | | | |
| a) Jenis Presisi (Kelas 0,2) | Per unit | US\$ | 87.00 |
| b) Jenis Hand Held | Per unit | US\$ | 64.00 |
| 2) AC Power Analyser / Power Meter | | | |
| a) Jenis Fasa Tunggal | Per unit | US\$ | 121.00 |
| b) Jenis Fasa Tiga | Per unit | US\$ | 168.00 |
| 3) Meja Tera KWH Meter atau Energi Meter | | | |
| a) Jenis Fasa Tunggal | Per unit | US\$ | 144.00 |
| b) Jenis Fasa Tiga | Per unit | US\$ | 229.00 |
| 4) Clamp On Multi Meter | Per unit | US\$ | 57.00 |
| 5) Oscilloscope | Per unit | US\$ | 68.00 |
| 6) DC Voltage/Current Standard | Per unit | US\$ | 57.00 |
| 7) Mesin Las | Per unit | US\$ | 57.00 |
| 8) AC Vortage & Current Source (Fasa Tunggal) | Per unit | US\$ | 57.00 |
| 9) AC Vortage & Current | Per unit | US\$ | 98.00 |
| 10) Recorder / Visigraph | Per unit | US\$ | 56.00 |
| 11) Relay Test Fasa Tunggal | Per unit | US\$ | 89.00 |
| 12) Relay Test Fasa Tiga Transformer Turn Ratio Tester / Torodial Turn | Per unit | US\$ | 169.00 |
| 13) Analyzer | Per unit | US\$ | 63.00 |
| 14) Weld Cheker | Per unit | US\$ | 57.00 |
| f. METER FREKUENSI | | | |
| 1) Frekuensi Meter | | | |
| a) Jenis Portable s.d. 100 Hz | Per unit | US\$ | 37.00 |
| b) Jenis panel > 100 Hz s.d. 225 MHz | Per unit | US\$ | 39.00 |
| 2) Frekuensi Counter Generator Frekuensi | | | |
| a) Signal Generator sd 100 Hz | Per unit | US\$ | 37.00 |
| b) 100 Hz sd 225 MHz | Per unit | US\$ | 39.00 |
| g. METER WAKTU | | | |
| 1) Mili Second Counter | Per unit | US\$ | 37.00 |
| 2) Counter | Per unit | US\$ | 37.00 |
| h. METER TEKANAN | | | |
| 1) Pressure Gauge / Vacuum Gauge | Per unit | US\$ | 30.00 |
| 2) Manometer | Per unit | US\$ | 36.00 |
| 3) Pressure Gauge / Manometer / Pressure Recorder /Transmitter | Per unit | US\$ | 36.00 |

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| 4) Prosedure Calibrator | Per unit | US\$ | 34.00 |
| i. METER SUHU | | | |
| 1) Thermometer Gelas < 0 deg C sd suhu ruang | Per unit | US\$ | 48.00 |
| 2) Temperature Detector (Thermocouple/RTD/ Temperature Gauge / Phyrometer) | Per unit | US\$ | 58.00 |
| 3) Digital Thermometer (tanpa Detector) | Per unit | US\$ | 36.00 |
| 4) Themperature Recorder (tanpa detector) | Per unit | US\$ | 41.00 |
| 5) Thermo Switch | Per unit | US\$ | 34.00 |
| 6) Themperature Callibrator | Per unit | US\$ | 73.00 |
| 7) Hygrometer | Per unit | US\$ | 96.00 |
| j. METER BISING/NOISE | | | |
| | Per unit | US\$ | 45.00 |
| k. BESARAN PUTARAN | | | |
| 1) Tachometer | Per unit | US\$ | 28.00 |
| 2) Dinamometer (Kuat Tarik) | Per unit | US\$ | 122.00 |
| 2. PENGUJIAN JENIS PERALATAN LISTRIK NON KABEL | | | |
| 1) Armature lampu Jalan | Per 3 set | US\$ | 1,778.00 |
| 2) Panel APP Tipe I dan II | Per 3 unit | US\$ | 333.00 |
| 3) Panel Tipe Khusus | Per unit | US\$ | 1,667.00 |
| 4) Ammeter AC/Voltmeter Analog | Per 5 buah | US\$ | 990.00 |
| 5) Ballast TL (Konvensional) | Per 3 buah | US\$ | 302.00 |
| 6) Ballast Elektronik | Per buah | US\$ | 804.00 |
| 7) Block Terminal | Per 10 buah | US\$ | 294.00 |
| 8) Bypass Switches, TM | Per buah | US\$ | 219.00 |
| 9) Battery Charger | Per unit | US\$ | 613.00 |
| 10) Cable Ledder | Per 5 buah | US\$ | 302.00 |
| 11) Digital Voltmeter AC | Per 5 buah | US\$ | 851.00 |
| 12) Disconnecting Switch, MV | Per unit | US\$ | 14,886.00 |
| 13) Fuse Cut out MV | Per 3 unit | US\$ | 1,416.00 |
| 14) Fuse Switch, std IEC | Per 3 unit | US\$ | 3,042.00 |
| 15) Pengaman lebur jenis Letupan Fuse Link / Link Clam | Per 15 buah | US\$ | 122.00 |
| 16) Fuse Base (Rumah Pelebur) | Per 10 buah | US\$ | 354.00 |
| 17) Pengujian jenis pada kaki pengaman pelebur (Fuse Base) untuk HRC Fuse | Per unit | US\$ | 1,111.00 |
| 18) Fitting Flapond | Per 10 buah | US\$ | 253.00 |
| 19) Gardu Metal (Metal Kiosk) | Per unit | US\$ | 334.00 |
| 20) Ground Rod | Per 8 batang | US\$ | 262.00 |
| 21) Genset > 150 kW sd 500 kW | Per unit | US\$ | 1,434.00 |
| 22) Genset > 500 kW | Per unit | US\$ | 1,567.00 |
| 23) Genset s.d 150 kW | Per unit | US\$ | 807.00 |
| 24) Isolator Tegangan Menengah | Per 16 buah | US\$ | 1,046.00 |
| 25) Isolator Tegangan Rendah | Per 16 buah | US\$ | 363.00 |
| 26) Kapasitor | Per 78 buah | US\$ | 437.00 |
| 27) Kontraktor | Per 6 buah | US\$ | 723.00 |
| 28) KWH Meter Elektronik fasa Tiga | Per 9 buah | US\$ | 3,218.00 |
| 29) KWH Meter Elektronik fasa Tunggal | Per 9 buah | US\$ | 3,210.00 |
| 30) KWH Elektronik fasa Tiga | Per 7 buah | US\$ | 2,671.00 |
| 31) Watt meter fasa 3 4 Wire | Per 5 buah | US\$ | 1,491.00 |
| 32) Var meter fasa 3 4 Wire | Per 5 buah | US\$ | 1,491.00 |
| 33) Lampu Pijar Diuji Normal | Per 35 buah | US\$ | 366.00 |

| | | | |
|---|--------------|------|----------|
| 34) Lampu Pijar Diuji Dipercepat | Per 35 buah | US\$ | 460.00 |
| 35) Lampu TL | Per 20 buah | US\$ | 506.00 |
| 36) Lampu HE | Per 25 buah | US\$ | 1,171.00 |
| 37) Load Break Switch (Saklar Pemutus Batas Tegangan Rendah pas. gan luar) | Per buah | US\$ | 2,288.00 |
| 38) MCB s.d 6 kA | Per 34 buah | US\$ | 2,889.00 |
| 39) MCB Icn > 6 kA | Per 34 buah | US\$ | 3,333.00 |
| 40) Pipa isolasi fleksibel bergelombang | Per 20 meter | US\$ | 184.00 |
| 41) Pipa Logam / PVC (JIS) | Per 5 batang | US\$ | 330.00 |
| 42) Pipa Logam / PVC (IEC) | Per 5 batang | US\$ | 171.00 |
| 43) Perangkat Hubung Bagi / Panel TR tanpa LBS | Per unit | US\$ | 1,667.00 |
| 44) Perangkat Hubung Bagi / Panel TR tanpa LBS | Per unit | US\$ | 2,389.00 |
| 45) Panel Hubung Bagi dan Kontrol berselubung logam Tegangan menengah Pasangan Luar/Dalam | Per unit | US\$ | 1,827.00 |
| 46) Panel Genset Tegangan Rendah | Per unit | US\$ | 1,161.00 |
| 47) Panel / Cubicle 20 kW RMU | Per unit | US\$ | 2,291.00 |
| 48) Power Panel | Per unit | US\$ | 1,205.00 |
| 49) Pemutus tenaga Tegangan Menengah (circuit breaker) | Per unit | US\$ | 1,592.00 |
| 50) Pipa Baja Galvanis untuk tiang atap | Per 3 unit | US\$ | 189.00 |
| 51) Pole Top Switch / LBS/ LGS (saklar pemutus beban tegangan menengah pemasangan luar) | Per unit | US\$ | 1,849.00 |
| 52) Rectangular Copper Wire | Per 30 meter | US\$ | 222.00 |
| 53) Starter lampu neon / TL | Per 10 buah | US\$ | 269.00 |
| 54) Relay Arus Lebih Analog | Per 3 buah | US\$ | 2,025.00 |
| 55) Relay Arus Lebih Digital | Per 3 buah | US\$ | 2,311.00 |
| 56) Relay Arus Lebih Digital + ReClose | Per 3 buah | US\$ | 2,725.00 |
| 57) Relay Arus Tambah Arah / Relay Daya Analog | Per 3 buah | US\$ | 2,311.00 |
| 58) Relay Arus Tambah Arah / Relay Daya Digital | Per 3 buah | US\$ | 2,597.00 |
| 59) Relay Jarak Analog | Per buah | US\$ | 2,997.00 |
| 60) Relay Jarak Digital | Per buah | US\$ | 3,653.00 |
| 61) Relay Jarak Digital + auto ReClose | Per buah | US\$ | 3,906.00 |
| 62) Relay Gangguan Tanah | Per 3 buah | US\$ | 2,803.00 |
| 63) ReClose | Per buah | US\$ | 939.00 |
| 3. PENGUJIAN JENIS KABEL | | | |
| a. KABEL TEGANGAN RENDAH | | | |
| 1) Kabel berisolasi PVC (NYA) | Per 30 meter | US\$ | 279.00 |
| 2) Kabel berisolasi PVC (NYAF) | Per 30 meter | US\$ | 457.00 |
| 3) Kabel berisolasi dan Berselubung PVC (NYM) | Per 30 meter | US\$ | 339.00 |
| 4) Kawat Fleksibel Kembar 2 & 3 (NYZ / NYD) | Per 30 meter | US\$ | 397.00 |
| 5) Kabel Tanah Berisolasi dan Berselubung PVC (NYY / NYCY) | Per 30 meter | US\$ | 320.00 |
| 6) Kabel Tanah Berisolasi dan Berselubung PVC (NYMHY/NYSHY) | Per 30 meter | US\$ | 351.00 |
| 7) Kabel Tanah Berisolasi dan Berselubung PVC (NYFGDY / NYBY) | Per 30 meter | US\$ | 595.00 |
| 8) Kabel Pilih Udara Berisolasi XLPE (NFA2XT/NFA2X/NF2X) | Per 30 meter | US\$ | 434.00 |
| 9) Kabel NAYBY | Per 30 meter | US\$ | 397.00 |
| 10) Kabel N2XBY-IEC332-3 | Per 70 meter | US\$ | 454.00 |

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|--|--------------|------|-----------|
| 11) Kabel Duplex/Qua Duplex | Per 30 meter | US\$ | 475.00 |
| b. KABEL KONTROL NY Y | | | |
| 1) 7 Inti | Per 30 meter | US\$ | 382.00 |
| 2) 12 Inti | Per 30 meter | US\$ | 475.00 |
| 3) Kabel PLC | Per 30 meter | US\$ | 128.00 |
| c. KABEL TEGANGAN MENENGAH | | | |
| 1) 1 Inti | Per 25 meter | US\$ | 1,596.00 |
| 2) 3 Inti | Per 25 meter | US\$ | 2,047.00 |
| 3) Pengujian Kedap Air | Per 8 meter | US\$ | 169.00 |
| d. KABEL TEGANGAN TINGGI | | | |
| Kabel Tegangan Tinggi XLPE | Per 25 meter | US\$ | 5,245.00 |
| e. HANTARAN / KONDUKTOR | | | |
| 1) AAC | Per 30 meter | US\$ | 260.00 |
| 2) AAAC | Per 30 meter | US\$ | 260.00 |
| 3) ACSR | Per 30 meter | US\$ | 446.00 |
| 4) OHC / AAC S | Per 30 meter | US\$ | 467.00 |
| 5) BBC H / 0,5 H | Per 30 meter | US\$ | 196.00 |
| 6) T. Alumunium | Per 30 meter | US\$ | 186.00 |
| 7) Kabel NA3GSEBY | Per 6 meter | US\$ | 2,770.00 |
| 8) Selubung Kabel PE (TM) | Per 30 meter | US\$ | 411.00 |
| 9) Galvanis Steel Wire (GSW) | Per 30 meter | US\$ | 255.00 |
| 10) Kabel Tegangan Tinggi NA2XC2Y, 36/70 kV, 1 x 800 mm | Per 30 meter | US\$ | 2,216.00 |
| 11) Kabel NY Y 61 x 2,5 mm | Per 30 meter | US\$ | 601.00 |
| 12) Rectangular Copper Wire | Per 30 meter | US\$ | 244.00 |
| 13) Hantaran Udara (AAC) 1000 SQMN | Per 30 meter | US\$ | 813.00 |
| f. MATERIAL ISOLASI KABEL | | | |
| 1) Penguji Lekuk pada Material Isolasi Pada Suhu rendah ($< 0^{\circ} C$) | Per 10 buah | US\$ | 167.00 |
| 2) Penguji Permuluran pada Material Isolasi Pada Suhu rendah ($< 0^{\circ} C$) | Per 10 buah | US\$ | 222.00 |
| 3) Penguji Pukul Material Isolasi Pada Suhu rendah ($< 0^{\circ} C$) | Per 10 buah | US\$ | 167.00 |
| 4) Pengujian Fire Hazard Pada Material isolasi dengan Glow | Per 10 buah | US\$ | 83.00 |
| 5) Pengujian Fire Hazard Pada Material isolasi dengan Needle Flame | Per 10 buah | US\$ | 222.00 |
| 6) Pengujian Flame Retardan pada material Isolasi | Per 10 buah | US\$ | 167.00 |
| g. LAIN LAIN | | | |
| 1) Pengujian Material Mesin Diesel s.d 5 MW Analisis Getaran | Per set | US\$ | 2,533.00 |
| 2) Pengujian Material Mesin Diesel s.d 5 MW Analisis Getaran | Per titik | US\$ | 10.00 |
| 4. MIKROHIDRO | | | |
| 1) Panel APP Tipe I; II | Per 3 unit | US\$ | 333.00 |
| 2) Panel Tipe Khusus | Per unit | US\$ | 1,667.00 |
| 3) Ammeter AC/ Voltmeter Analog | Per 5 buah | US\$ | 990.00 |
| 4) Blok Terminal | Per 10 buah | US\$ | 294.00 |
| 5) By Pass Switches. TM | Per buah | US\$ | 219.00 |
| 6) Disconnecting Switch MV | Per unit | US\$ | 14,886.00 |

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| 7) Fuse Cut Out MV | Per 3 unit | US\$ | 1,416.00 |
| 8) Fuse Swith. Std IEC | Per 3 unit | US\$ | 3,042.00 |
| 9) Pengaman Lebur jenis Letupan Fuse Link / Link Clam | Per 15 buah | US\$ | 122.00 |
| 10) Fuse Base (Rumah Pelebur) | Per 10 buah | US\$ | 354.00 |
| 11) Pengujian jenis pada kaki pengaman lebur untuk HRC fuse | Per unit | US\$ | 1,111.00 |
| 12) Groun Rod | Per 8 batang | US\$ | 262.00 |
| 13) Genset > 150 kW s/d 500 kW | Per unit | US\$ | 1,434.00 |
| 14) Genset > 500 kW | Per unit | US\$ | 1,567.00 |
| 15) Genset s/d 150 kW | Per unit | US\$ | 807.00 |
| 16) Isalator Tegangan Menengah | Per 16 buah | US\$ | 1,046.00 |
| 17) Isalator Tegangan Rendah | Per 16 buah | US\$ | 363.00 |
| 18) Kapasitor | Per 50 buah | US\$ | 437.00 |
| 19) Kontaktor | Per 6 buah | US\$ | 723.00 |
| 20) KWH Meter Elektronik Fasa Tiga | Per 9 buah | US\$ | 3,218.00 |
| 21) KWH Meter Elektronik Fasa Tunggal | Per 9 buah | US\$ | 3,210.00 |
| 22) KWH Electronics Pasa Tiga | Per 7 buah | US\$ | 2,671.00 |
| 23) Watt Meter Fasa 3 - 4 Wire | Per 5 buah | US\$ | 1,491.00 |
| 24) Var Meter Fasa 3 - 4 Wire | Per 5 buah | US\$ | 1,491.00 |
| 25) Load Break Switch (Saklar Pemutus Bebas Tegangan rendah) | Per buah | US\$ | 2,288.00 |
| 26) MCB s/d 6 kA | Per 34 buah | US\$ | 2,889.00 |
| 27) MCB Icn > 6 kA | Per 34 buah | US\$ | 3,333.00 |
| 28) Pipa Isolasi Fleksibel Bergelombang | Per 20 meter | US\$ | 184.00 |
| 29) Pipa Logam / PVC (JIS) | Per 5 batang | US\$ | 330.00 |
| 30) Pipa Logam / PVC (IEC) | Per 5 batang | US\$ | 330.00 |
| 31) Perangkat Hubung Bagi/Panel TR tanpa LBS | Per unit | US\$ | 1,667.00 |
| 32) Perangkat Hubung Bagi/Panel TR tanpa LBS | Per unit | US\$ | 2,389.00 |
| 33) Panel Hubung Bagi, Kontrol Selubung Logam Tegangan Menengah | Per unit | US\$ | 1,827.00 |
| 34) Panel genset Tegangan Rendah | Per unit | US\$ | 1,161.00 |
| 35) Panel / Cublicle 20 kW RMU | Per unit | US\$ | 2,291.00 |
| 36) Power Panel | Per unit | US\$ | 1,205.00 |
| 37) Pemutus Tenaga Tegangan Menengah (Circuit Breaker) | Per unit | US\$ | 1,592.00 |
| 38) Pole Top Switch/LBS/LGS (Sakelar Pemutus Beban) | Per unit | US\$ | 1,849.00 |
| 39) Rectanguler Copper Wire | Per 30 meter | US\$ | 222.00 |
| 40) Sakelar Kombinasi | Per 10 buah | US\$ | 341.00 |
| 41) Stop Kontak (Kotak Kontak) | Per 10 buah | US\$ | 385.00 |
| 42) Tusuk Kontak | Per 10 buah | US\$ | 385.00 |
| 43) Sakelar Engkel | Per 10 buah | US\$ | 323.00 |
| 44) Sakelar Seri | Per 10 buah | US\$ | 367.00 |
| 45) Tutup Kotak APP Transparant TR /TM | Per 3 buah | US\$ | 154.00 |
| 46) Transformator distribusi Fasa Tiga s/d 160 kVA | Per unit | US\$ | 2,249.00 |
| 47) Transformator distribusi Fasa Tiga 200 s/d 630 kVA | Per unit | US\$ | 2,417.00 |
| 48) Transformator distribusi Fasa Tiga 800 s/d 1250 kVA | Per unit | US\$ | 2,610.00 |
| 49) Transformator Fasa Tunggal CSP / Non CSP | Per unit | US\$ | 1,733.00 |
| 50) Transformator Fasa Arus / Tegangan (TR) | Per 3 unit | US\$ | 876.00 |
| 51) Transformator Fasa Arus / Tegangan (TM) | Per 3 unit | US\$ | 1,645.00 |
| 52) Transformator Penaik/Penurun (Step Up/Down Transformator) | Per 3 unit | US\$ | 2,177.00 |
| 53) Transformator Tenaga s/d 5 MVA | Per unit | US\$ | 3,031.00 |
| 54) Terminal Kabel 20 kV Pasangan Luar 3 inti | Per 2 set | US\$ | 3,864.00 |
| 55) Terminal Kabel 20 kV Pasangan Luar 1 inti | Per 4 set | US\$ | 3,864.00 |
| 56) Terminal Kabel kV Pasangan dalam 3 Inti | Per 2 set | US\$ | 3,220.00 |

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| 57) Terminal Kabel kV Pasangan dalam 3 Inti | Per 4 set | US\$ | 3,220.00 |
| 58) Relay Arus Lebih Analog | Per 3 buah | US\$ | 2,005.00 |
| 59) Relay Arus Lebih Digital | Per 3 buah | US\$ | 2,311.00 |
| 60) Relay Arus Lebih Digital + Auto Reclose | Per 3 buah | US\$ | 2,725.00 |
| 61) Relay Arus + Arah/ Relay Daya Analog | Per 3 buah | US\$ | 2,311.00 |
| 62) Relay Arus + Arah/ Relay Daya Digital | Per 3 buah | US\$ | 2,597.00 |
| 63) Relay Jarak Analog | Per buah | US\$ | 2,997.00 |
| 64) Relay Jarak Digital | Per buah | US\$ | 3,653.00 |
| 65) Relay Jarak Digital + Auto Reclose | Per buah | US\$ | 3,906.00 |
| 66) Relay Gangguan Tanah | Per 3 buah | US\$ | 2,803.00 |
| 67) Recloser | Per buah | US\$ | 939.00 |
| 68) Uji Balancing Turbin | Per buah | US\$ | 83.00 |
| 5. PANAS BUMI | | | |
| a. LOW MOLECULAR WEIGH (<math>C_{15}</math>) COMPOSITION | | | |
| 1) Analysis of fluid inclusions using GC-MS (online MSSV GC-MS analysis for C_3 - C_{14} composition) | Per sample | US\$ | 125.00 |
| 2) Split injection of oil or condensate for comparison | Per sample | US\$ | 175.00 |
| b. PETROGRAPHY OF IGNEOUS AND METAMORPHIC ROCK | | | |
| 1) Basic description identification and main mineralogy Only | Per sample | US\$ | 125.00 |
| 2) Detailed description including paragenetic history of altered minerals. | Per sample | US\$ | 175.00 |
| 3) Core description | Per meter | US\$ | 67.50 |
| 4) Description of Ditch Cutting | Per feet | US\$ | 20.00 |
| 5) Sieve Analysis (6 sieves) | Per sample | US\$ | 75.00 |
| 6) Sieve Analysis (more than 6 sieves) | Per sample | US\$ | 110.00 |
| 7) Environmental studies on sands and sandstones statistical parameters, size distribution curves, and environmental interpretation (cost depends on the number of sieves required). | Per sample | US\$ | 115.00 |
| c. X-RAY DIFFRACTION | | | |
| 1) Semi- Quantitative Analysis of Bulk minerals | Per sample | US\$ | 125.00 |
| 2) Semi- Quantitative Analysis of Clay minerals | Per sample | US\$ | 150.00 |
| d. SCANNING ELECTRON MICROSCOPY | | | |
| 1) Geometry of pore system (including preparation of pore cast, and quantitative evaluation of size, shape and distribution of pores) | Per sample | US\$ | 375.00 |
| 2) SEM of core, sidewall core and cutting to provide general information on reservoir quality (pore system character, cements or pore-filling clays) and the development of diagenetic mineral phase. | Per sample | US\$ | 175.00 |
| e. ENERGY DISPERSIVE ANALYSIS BY X-RAY (EDAX) | | | |
| 1) Rapid minerals identification of selected grains and semi-quantitative chemical analysis by EDAX | Per sample | US\$ | 110.00 |
| 2) Standard preparation | Per sample | US\$ | 15.00 |
| 3) Blocking - in technique for ditch cutting | Per samples | US\$ | 13.00 |
| 4) Impregnation by or green dyed resin under vacuum to illustrate porosity | Per sample | US\$ | 10.00 |
| 5) Staining of Carbonate Minerals using Feigs or Dickson | Per sample | US\$ | 5.00 |

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| | solution, Titan Yellow or other methods. | | | |
| 6) | Feldspar stain | Per sample | US\$ | 10.00 |
| 7) | Complete (Porosity, Horizontal permeability and fluid contents) | Per sample | US\$ | 60.00 |
| 8) | Porosity, by Helium Injection Boyles Law | Per sample | US\$ | 30.00 |
| 9) | Horizontal permeability | Per sample | US\$ | 30.00 |
| 10) | Klinkenberg Permeability | Per sample | US\$ | 60.00 |
| 11) | Slippage Factor Calculation | Per sample | US\$ | 10.00 |
| 12) | Vertical Permeability | Per sample | US\$ | 30.00 |
| 13) | Fluid Contents by Retort | Per sample | US\$ | 30.00 |
| 14) | Fluid Contents by Dean Stark | Per sample | US\$ | 30.00 |
| 15) | Grain Density (calculated) | Per sample | US\$ | 20.00 |
| 16) | Grain Density (measured) | Per sample | US\$ | 50.00 |
| 17) | By Hysol Resin | Per sample | US\$ | 22.00 |
| 18) | By Lead Jacket | Per sample | US\$ | 25.00 |
| 19) | By Plastic/Rubber Sleeve | Per sample | US\$ | 20.00 |
| 20) | Special Handling Required because Rock Type, Texture | Per orang/jam | US\$ | 30.00 |
| f. | SIDEWALL CORE ANALYSIS | | | |
| 1) | Complete(Porosity, permeability and Fluid Contents). | Per sample | US\$ | 75.00 |
| 2) | Porosity (by Helium Unjection-Boyles Law) | Per sample | US\$ | 30.00 |
| 3) | Permeability (Horizontal only) | Per sample | US\$ | 30.00 |
| 4) | Grain Density (Calculated) | Per sample | US\$ | 20.00 |
| 5) | Grain Density (Measured) | Per sample | US\$ | 25.00 |
| 6) | Bulk (Saturated) Density, by Mercury Injection | Per sample | US\$ | 20.00 |
| g. | FULL DIAMETER CORE ANALYSIS | | | |
| 1) | Fluid Contents by conventional Retort | Per sample | US\$ | 30.00 |
| 2) | Porosity (Helium Injection-Boyles Law) | Per sample | US\$ | 40.00 |
| 3) | Horizontal Permeability, 2 Direction Measurements | Per sample | US\$ | 60.00 |
| 4) | Vertical permeability | Per sample | US\$ | 440.00 |
| 5) | Fluid Content by Dean Strak Method | Per sample | US\$ | 110.00 |
| 6) | Grain Density (Calculated) | Per sample | US\$ | 225.00 |
| h. | MISCELLANEOUS | | | |
| 1) | Specific Gravity of Fluid | Per sample | US\$ | 30.00 |
| 2) | Viscosity of Fluid | Per sample | US\$ | 30.00 |
| 3) | Rent of Dip Tank for Preservation of Core | Per hari | US\$ | 50.00 |

| JENIS PENERIMAAN NEGARA BUKAN PAJAK | SATUAN | TARIF |
|--|----------|---------------|
| IV. PENERIMAAN DARI PELAYANAN JASA BIDANG PENDIDIKAN DAN PELATIHAN | | |
| A. SEKRETARIAT BADIKLAT | | |
| 1. Pemakaian Ruang Kelas | | |
| a. Kapasitas 20 orang | Per hari | Rp 200.000,00 |

| JENIS PENERIMAAN NEGARA BUKAN PAJAK | SATUAN | TARIF |
|--|-------------------|------------------|
| b. Kapasitas 30 orang | Per hari | Rp 300.000,00 |
| c. Kapasitas 40 orang | Per hari | Rp 400.000,00 |
| 2. Pemakaian Ruang Aula | | |
| a. Untuk Seminar | | Rp |
| 1) Intern DESDM | Per 6 jam | Rp 1.000.000,00 |
| 2) Umum | Per 6 jam | Rp 2.000.000,00 |
| b. Untuk Resepsi | | |
| 1) Pegawai DESDM | Per 6 jam | Rp 1.000.000,00 |
| 2) Umum | Per 6 jam | Rp 1.500.000,00 |
| B. PUSAT PENDIDIKAN DAN PELATIHAN MINYAK DAN GAS BUMI | | |
| 1. JASA PENDIDIKAN DAN LATIHAN | | |
| a. Pendidikan Akademi Minyak dan Gas Bumi/Akamigas (Reguler) | Per orang / bulan | Rp 3.250.000,00 |
| b. Jasa Pelatihan (Non Reguler) | | |
| 1) Jangka Waktu Pelatihan | | |
| a) Jangka Pendek : 1 - 6 hari | | |
| 1) Tingkat Operator | Per orang / paket | Rp 4.500.000,00 |
| 2) Tingkat Supervisor | Per orang / paket | Rp 5.250.000,00 |
| 3) Tingkat Manajer | Per orang / paket | Rp 5.625.000,00 |
| b) Jangka Menengah : 7 - 14 hari | | |
| 1) Tingkat Operator | Per orang / paket | Rp 6.300.000,00 |
| 2) Tingkat Supervisor | Per orang / paket | Rp 7.125.000,00 |
| 3) Tingkat Manajer | Per orang / paket | Rp 7.500.000,00 |
| c) Jangka Panjang : > 14 hari | | |
| 1) Tingkat Operator | Per orang / paket | Rp 9.600.000,00 |
| 2) Tingkat Supervisor | Per orang / paket | Rp 10.050.000,00 |
| 3) Tingkat Manajer | Per orang / paket | Rp 10.350.000,00 |
| 2) Ujian Sertifikasi di Cepu | | |
| a) Sertifikasi Bor | | |

| JENIS PENERIMAAN NEGARA BUKAN PAJAK | SATUAN | TARIF |
|--|----------------------|---------------|
| 1) Juru Bor | Per orang / paket | Rp 800.000,00 |
| 2) Ahli Pengendali Bor | Per orang / paket | Rp 800.000,00 |
| 3) Operator Lantai Bor | Per orang / paket | Rp 500.000,00 |
| 4) Operator Menara Bor | Per orang / paket | Rp 500.000,00 |
| b) Sertifikasi Operator Pesawat Angkat | Per orang / paket | Rp 500.000,00 |
| c) Sertifikasi Operator Perawatan Sumur | | |
| 1) Operator Lantai Perawatan | Per orang / paket | Rp 500.000,00 |
| 2) Operator Menara Perawatan | Per orang / paket | Rp 500.000,00 |
| 3) Operator Unit Perawatan | Per orang / paket | Rp 800.000,00 |
| 4) Ahli Pengendali Perawat sumur | Per orang / paket | Rp 800.000,00 |
| 5) Pengawas Perawatan sumur | Per orang / paket | Rp 800.000,00 |
| d) Sertifikasi Seismik | Per orang / paket | Rp 500.000,00 |
| e) Sertifikasi Aviation | | |
| 1) Tingkat A | Per orang / paket | Rp 500.000,00 |
| 2) Tingkat B & C | Per orang / paket | Rp 800.000,00 |
| f) Sertifikasi Operator Prod. Lepas Pantai | | |
| 1) Operator Muda | Per orang / paket | Rp 500.000,00 |
| 2) Operator Madya | Per orang / paket | Rp 500.000,00 |
| 3) Operator Kepala Produksi | Per orang / paket | Rp 800.000,00 |
| 4) Pengawas Operasi Produksi | Per orang / paket | Rp 800.000,00 |
| 5) Pengawas Utama Produksi | Per orang / paket | Rp 800.000,00 |
| 3) Ujian Sertifikasi di luar Cepu | | |
| a) Sertifikasi Bor | | |

| JENIS PENERIMAAN NEGARA BUKAN PAJAK | SATUAN | TARIF | |
|---|----------------------|-------|------------|
| 1) Juru Bor | Per orang / paket | Rp | 400.000,00 |
| 2) Ahli Pengendali Bor | Per orang / paket | Rp | 400.000,00 |
| 3) Operator Lantai Bor | Per orang / paket | Rp | 400.000,00 |
| 4) Operator Menara Bor | Per orang / paket | Rp | 400.000,00 |
| b) Sertifikasi Operator Pesawat Angkat | Per orang / paket | Rp | 400.000,00 |
| c) Sertifikasi Operator Perawatan Sumur | | | |
| 1) Operator Lantai Perawatan | Per orang / paket | Rp | 400.000,00 |
| 2) Operator Menara Perawatan | Per orang / paket | Rp | 400.000,00 |
| 3) Operator Unit Perawatan | Per orang / paket | Rp | 500.000,00 |
| 4) Ahli Pengendali Perawatan sumur | Per orang / paket | Rp | 500.000,00 |
| 5) Pengawas Perawatan Sumur | Per orang / paket | Rp | 500.000,00 |
| d) Sertifikasi Seismik | Per orang / paket | Rp | 400.000,00 |
| e) Sertifikasi Aviation | | | |
| 1) Tingkat A | Per orang / paket | Rp | 400.000,00 |
| 2) Tingkat B & C | Per orang / paket | Rp | 500.000,00 |
| f) Sertifikasi Operator Prod. Lepas Pantai | | | |
| 1) Operator Muda | Per orang / paket | Rp | 400.000,00 |
| 2) Operator Madya | Per orang / paket | Rp | 400.000,00 |
| 3) Operator Kepala Produksi | Per orang / paket | Rp | 500.000,00 |
| 4) Pengawas Operasi Produksi | Per orang / paket | Rp | 500.000,00 |
| 5) Pengawas Utama Produksi | Per orang / paket | Rp | 500.000,00 |
| 2. JASA PELAYANAN KEAHLIAN | | | |

| JENIS PENERIMAAN NEGARA BUKAN PAJAK | SATUAN | TARIF |
|--|-------------------|------------------|
| a. Rekayasa Engineering | Per orang / hari | Rp 300.000,00 |
| b. Studi Reservoir | Per orang / hari | Rp 300.000,00 |
| c. Studi Lainnya | Per orang / hari | Rp 300.000,00 |
| d. Perbantuan Tenaga Ahli | Per orang / bulan | Rp 12.600.000,00 |
| 3. JASA PERAGA DIKLAT | | |
| a. Harga Dasar Jasa Pengolahan Minyak mentah | Per liter | Rp 33,74 |
| b. Harga Dasar Penjualan produk sampingan : | | |
| 1) Residu I | Per liter | Rp 578,00 |
| 2) Residu 38 | Per liter | Rp 628,00 |
| 3) Residu 30 | Per liter | Rp 673,00 |
| 4) Residu SK | Per liter | Rp 251,00 |
| 5) BOD | Per liter | Rp 728,00 |
| 6) Wax | Per kg | Rp 1.151,00 |
| 7) Slud Wax | Per kg | Rp 137,00 |
| c. JASA LABORATORIUM | | |
| 1) Lab. Minyak Bumi | | |
| a) Specific gravity | Per pemeriksaan | Rp 35.750,00 |
| b) API Gravity | Per pemeriksaan | Rp 35.750,00 |
| c) Copper strip corrosion | Per pemeriksaan | Rp 75.625,00 |
| d) Conradson Carbon Residu | Per pemeriksaan | Rp 57.750,00 |
| e) Existent Gum | Per pemeriksaan | Rp 103.125,00 |
| f) Flash Point PMCC | Per pemeriksaan | Rp 57.750,00 |
| g) Flash Point COC | Per pemeriksaan | Rp 57.750,00 |
| h) Flash Point Abel | Per pemeriksaan | Rp 57.750,00 |
| i) Flash Point Tag | Per pemeriksaan | Rp 57.750,00 |
| j) Reid Vapor Pressure (RVP) | Per pemeriksaan | Rp 85.250,00 |
| k) Colour ASTM | Per pemeriksaan | Rp 35.750,00 |

| JENIS PENERIMAAN NEGARA BUKAN PAJAK | SATUAN | TARIF | |
|--|-----------------|-------|------------|
| | Per pemeriksaan | Rp | 35.750,00 |
| l) Colour Lovibond | Per pemeriksaan | Rp | 35.750,00 |
| m) Colour Saybolt | Per pemeriksaan | Rp | 61.875,00 |
| n) Kinematic Viscosity at 100 F | Per pemeriksaan | Rp | 61.875,00 |
| o) Kinematic Viscosity at 210 F | Per pemeriksaan | Rp | 61.875,00 |
| p) Kinematic Viscosity at 40 C | Per pemeriksaan | Rp | 61.875,00 |
| q) Kinematic Viscosity at 100 C | Per pemeriksaan | Rp | 123.750,00 |
| r) Viscosity Index | Per pemeriksaan | Rp | 61.875,00 |
| s) Saybolt Viscosity | Per pemeriksaan | Rp | 61.875,00 |
| t) Redwood Viscosity | Per pemeriksaan | Rp | 88.000,00 |
| u) Distilasi ASTM | Per pemeriksaan | Rp | 75.625,00 |
| v) Aniline Point/DI/CI | Per pemeriksaan | Rp | 79.750,00 |
| w) Calculated Cetane Index | Per pemeriksaan | Rp | 61.875,00 |
| x) Smoke Point | Per pemeriksaan | Rp | 52.250,00 |
| y) Water content | Per pemeriksaan | Rp | 75.625,00 |
| z) Ash content | Per pemeriksaan | Rp | 178.750,00 |
| aa) Sediment by Extraction | Per pemeriksaan | Rp | 151.250,00 |
| bb) Insoluble in Used Oil (centrifuge) | Per pemeriksaan | Rp | 44.000,00 |
| cc) Doctor Test | Per pemeriksaan | Rp | 61.875,00 |
| dd) Pour Test | Per pemeriksaan | Rp | 35.750,00 |
| ee) Water Reaction | Per pemeriksaan | Rp | 61.875,00 |
| ff) Indexs Bias | Per pemeriksaan | Rp | 99.000,00 |
| gg) Char Value | Per pemeriksaan | Rp | 61.875,00 |
| hh) Characteristic Factor, KUOP | Per pemeriksaan | Rp | 30.250,00 |
| ii) Melting Point | Per pemeriksaan | Rp | 89.000,00 |
| jj) Softening Point R & B | Per pemeriksaan | Rp | 309.375,00 |
| kk) Research Octane Number, RON | pemeriksaan | Rp | 309.375,00 |

| JENIS PENERIMAAN NEGARA BUKAN PAJAK | SATUAN | TARIF |
|---------------------------------------|-----------------|---------------|
| ll) Water & Sediment | Per pemeriksaan | Rp 71.500,00 |
| mm) Wax Content | Per pemeriksaan | Rp 275.000,00 |
| nn) Congealing Point of Petroleum Wax | Per pemeriksaan | Rp 35.750,00 |
| oo) Freezing Point | Per pemeriksaan | Rp 92.813,00 |
| pp) Aromatic Content | Per pemeriksaan | Rp 107.250,00 |
| qq) Silver Strip corrosion | Per pemeriksaan | Rp 123.750,00 |
| rr) Cloud Point | Per pemeriksaan | Rp 61.875,00 |
| 2) Lab. Kimia BBM/NON BBM | | |
| a) Sulfur Content ASTM D 1266 | Per pemeriksaan | Rp 151.250,00 |
| b) Sulfur content | Per pemeriksaan | Rp 151.250,00 |
| c) Carbon Content | Per pemeriksaan | Rp 133.750,00 |
| d) Hydrogen content | Per pemeriksaan | Rp 133.750,00 |
| e) Mercaptan Sulfur | Per pemeriksaan | Rp 137.500,00 |
| f) Total Acidity | Per pemeriksaan | Rp 151.250,00 |
| g) TAN/TBN ASTM D 664 | Per pemeriksaan | Rp 133.750,00 |
| h) TAN/TBN ASTM D 974 | Per pemeriksaan | Rp 133.750,00 |
| i) SAN | Per pemeriksaan | Rp 133.750,00 |
| j) Sulfated Ash | Per pemeriksaan | Rp 68.750,00 |
| k) Salt Content | Per pemeriksaan | Rp 123.750,00 |
| l) TEL Content | Per pemeriksaan | Rp 103.125,00 |
| m) Lead Content | Per pemeriksaan | Rp 217.250,00 |
| n) Calorific Value (Bomb Method) | Per pemeriksaan | Rp 250.000,00 |
| o) Metal Content (tiap logam) | Per pemeriksaan | Rp 41.250,00 |
| 3) Air | | |
| a) Air Minum : | | |
| 1) Fisika-Kimia | Per pemeriksaan | Rp 281.250,00 |

| JENIS PENERIMAAN NEGARA BUKAN PAJAK | SATUAN | TARIF |
|--|-----------------|---------------|
| 2) Mikrobiologi | Per pemeriksaan | Rp 75.000,00 |
| b) Air bersih : | | |
| 1) Fisika-Kimia | Per pemeriksaan | Rp 281.250,00 |
| 2) Mikrobiologi | Per pemeriksaan | Rp 75.000,00 |
| c) Badan Air : | | |
| 1) Fisika-Kimia | Per pemeriksaan | Rp 281.250,00 |
| 2) Mikrobiologi | Per pemeriksaan | Rp 75.000,00 |
| 4) Lab. Lindungan Lingkungan | | |
| a) Udara | Per pemeriksaan | Rp 237.500,00 |
| b) Kebisingan | Per pemeriksaan | Rp 10.000,00 |
| c) Limbah air | Per pemeriksaan | Rp 93.750,00 |
| 5) Lab. Produksi | | |
| a) Oil Well Cement & Mud analysis | | |
| 1) Density | Per pemeriksaan | Rp 26.250,00 |
| 2) Viscosity Marsh Funnel | Per pemeriksaan | Rp 26.250,00 |
| 3) Rheology Properties | Per pemeriksaan | Rp 87.500,00 |
| 4) Fluid Loss | Per pemeriksaan | Rp 62.500,00 |
| 5) High Pressure & High Temp. fluid loss test | Per pemeriksaan | Rp 112.500,00 |
| 6) PH Analysis | Per pemeriksaan | Rp 26.250,00 |
| 7) Free Water | Per pemeriksaan | Rp 75.000,00 |
| 8) compressive Strength Test | Per pemeriksaan | Rp 150.000,00 |
| 9) Sieve analysis Test | Per pemeriksaan | Rp 112.500,00 |
| 10) Specific Gravity Cement Powder | Per pemeriksaan | Rp 87.500,00 |
| 11) Initial & Final Setting Test by Penetrometer | Per pemeriksaan | Rp 112.500,00 |
| 12) Wet Screen analysis Testing Using two sieve | Per pemeriksaan | Rp 75.000,00 |
| 13) Moisture Content | Per pemeriksaan | Rp 87.500,00 |

| JENIS PENERIMAAN NEGARA BUKAN PAJAK | SATUAN | TARIF |
|---|-----------------|---------------|
| 14) Bentonite | Per pemeriksaan | Rp 187.500,00 |
| 15) Non Treated Bentonite | Per pemeriksaan | Rp 187.500,00 |
| 16) Attalugite | Per pemeriksaan | Rp 187.500,00 |
| 17) Spiolite | Per pemeriksaan | Rp 187.500,00 |
| 18) Technical Grade Low-Viscosity CMC | Per pemeriksaan | Rp 187.500,00 |
| 19) Technical Grade High-Viscosity CMC | Per pemeriksaan | Rp 212.500,00 |
| 20) Starch | Per pemeriksaan | Rp 212.500,00 |
| b) Routine Core Analysis | | |
| 1) Complete (porosity,Hor.Permeability) | Per pemeriksaan | Rp 175.000,00 |
| 2) Partial (any Two or above) | Per pemeriksaan | Rp 137.500,00 |
| 3) Porosity (by Helium Injection Boyle's Law | Per pemeriksaan | Rp 87.500,00 |
| 4) Horizontal Permeability | Per pemeriksaan | Rp 87.500,00 |
| 5) Vertical Permeability | Per pemeriksaan | Rp 87.500,00 |
| 6) Grain Density (calculated) | Per pemeriksaan | Rp 62.500,00 |
| 7) Grain Density (Measured) | Per pemeriksaan | Rp 100.000,00 |
| 8) Bulk (saturated) Density (by Mercury Injection | Per pemeriksaan | Rp 50.000,00 |
| 9) Mounting required for Soft or Friable Rocks | Per pemeriksaan | Rp 56.250,00 |
| 10) Acid solubility | Per pemeriksaan | Rp 50.000,00 |
| 11) Kadar Minyak dalam sludge | Per pemeriksaan | Rp 187.500,00 |
| 12) Pemeriksaan TCLP Sludge | | |
| (a) Ekstraksi | Per pemeriksaan | Rp 625.000,00 |
| (b) Pengujian logam | Per pemeriksaan | Rp 37.500,00 |
| 6) Lab Teknik Sipil | | |
| a) Pemeriksaan Beton | | |
| 1) Test Tekan Kubus | Per buah | Rp 10.000,00 |
| 2) Hammer Test | Per buah | Rp 5.000,00 |

| JENIS PENERIMAAN NEGARA BUKAN PAJAK | SATUAN | TARIF |
|---|--------------------|---------------|
| 3) Test Tekan Silinder | Per buah | Rp 12.000,00 |
| 4) Migdesign | Per sample | Rp 250.000,00 |
| b) Mextan | | |
| 1) Sondir max 20 meter | Per titik | Rp 250.000,00 |
| 2) Boring max 5 meter | Per titik | Rp 450.000,00 |
| 3) Sand Cone | Per titik | Rp 50.000,00 |
| 4) Pemadatan (Standar Proctor) | Per sample | Rp 250.000,00 |
| c) Pemeriksaan Bahan Bangunan | | |
| 1) Analisa Saringan | Per sample | Rp 150.000,00 |
| 2) Abrasion Test | Per sample | Rp 100.000,00 |
| 4. JASA PELAYANAN UMUM | | |
| a. Pelayanan Kamar Rumah Sakit | | |
| 1) Kamar Klas I | Per orang / hari | Rp 70.000,00 |
| 2) Kamar Klas II | Per orang / hari | Rp 55.000,00 |
| 3) Kamar Klas III | Per orang / hari | Rp 35.000,00 |
| 4) Pemeriksaan dokter | Per orang/periksa | Rp 7.000,00 |
| b. Pelayanan air minum | | |
| 1) Pemakaian 0 - 10 m ³ | | |
| a) Pegawai di rumah dinas/eks rumah dinas | Per m ³ | Rp 350,00 |
| b) Pegawai di luar rumah dinas | Per m ³ | Rp 300,00 |
| c) Kepentingan Umum | Per m ³ | Rp 600,00 |
| d) Sosial/Rm Tangga umum | Per m ³ | Rp 600,00 |
| e) Swasta Kecil | Per m ³ | Rp 1.450,00 |
| f) Swasta Besar | Per m ³ | Rp 2.650,00 |
| g) Pabrik | Per m ³ | Rp 3.000,00 |
| 2) Pemakaian 11 - 20 m ³ | | |
| a) Pegawai di rumah dinas/eks rumah dinas | Per m ³ | Rp 350,00 |
| b) Pegawai di luar rumah dinas | Per m ³ | Rp 300,00 |
| c) Kepentingan Umum | Per m ³ | Rp 600,00 |
| d) Sosial / rumah tangga umum | Per m ³ | Rp 650,00 |

| JENIS PENERIMAAN NEGARA BUKAN PAJAK | SATUAN | TARIF |
|---|--------------------|---------------|
| e) Swasta Kecil | Per m ³ | Rp 1.550,00 |
| f) Swasta Besar | Per m ³ | Rp 2.750,00 |
| g) Pabrik | Per m ³ | Rp 3.000,00 |
| 3) Pemakaian 21 - 30 m ³ | | |
| a) Pegawai di rumah dinas/eks rumah dinas | Per m ³ | Rp 650,00 |
| b) Pegawai di luar rumah dinas | Per m ³ | Rp 600,00 |
| c) Kepentingan Umum | Per m ³ | Rp 600,00 |
| d) Sosial / rumah tangga umum | Per m ³ | Rp 750,00 |
| e) Swasta Kecil | Per m ³ | Rp 1.950,00 |
| f) Swasta Besar | Per m ³ | Rp 3.500,00 |
| g) Pabrik | Per m ³ | Rp 4.200,00 |
| 4) Pemakaian > 30 m ³ | | |
| a) Pegawai di rumah dinas/eks rumah dinas | Per m ³ | Rp 700,00 |
| b) Pegawai di luar rumah dinas | Per m ³ | Rp 600,00 |
| c) Kepentingan Umum | Per m ³ | Rp 600,00 |
| d) Sosial / rumah tangga umum | Per m ³ | Rp 950,00 |
| e) Swasta Kecil | Per m ³ | Rp 2.500,00 |
| f) Swasta Besar | Per m ³ | Rp 5.000,00 |
| g) Pabrik | Per m ³ | Rp 5.500,00 |
| c. Palayanan Listrik | | |
| 1) Pegawai di rumah dinas/eks rumah dinas | Per Kwh | Rp 120,00 |
| 2) Perus. Perminyakan | | |
| a) Perumahan | Per Kwh | Rp 360,00 |
| b) Perkantoran/Pabrik/Instalasi | Per Kwh | Rp 360,00 |
| d. Pemakaian Gedung Pertemuan | | |
| 1) Pegawai | Per hari | Rp 90.000,00 |
| 2) Pensiunan | Per hari | Rp 180.000,00 |
| 3) Umum | Per hari | Rp 600.000,00 |
| 4) Pengusaha | Per hari | Rp 900.000,00 |
| e. Pemakaian Gedung Olah Raga | | |

| JENIS PENERIMAAN NEGARA BUKAN PAJAK | SATUAN | TARIF | |
|---|-------------------------------------|----------------|-------------------------------------|
| 1) Bulu Tangkis a) Instansi Pemerintah b) BUMN c) Club/Swasta | Per bulan Per bulan Per bulan | Rp Rp Rp | 50.000,00 60.000,00 70.000,00 |
| 2) Volley/Basket a) Instansi Pemerintah b) BUMN c) Club/Swasta | Per bulan Per bulan Per bulan | Rp Rp Rp | 60.000,00 70.000,00 80.000,00 |
| f. Pemakaian Alat Berat | | | |
| 1) Buldozer | Per hari | Rp | 200.000,00 |
| 2) Grader | Per hari | Rp | 135.000,00 |
| 3) Road Roller | Per hari | Rp | 60.000,00 |
| 4) Crane | Per hari | Rp | 120.000,00 |
| 5) Kent Word | Per hari | Rp | 85.000,00 |
| 6) Hyster | Per hari | Rp | 75.000,00 |
| 7) Forklift | Per hari | Rp | 40.000,00 |
| g. Tamu Mess/Wisma | | | |
| 1) Wisma Nglajo II,III,IV | | | |
| a) Pegawai | Per hari / kamar | Rp | 25.000,00 |
| b) Pertamina | Per hari / kamar | Rp | 75.000,00 |
| c) Umum | Per hari / kamar | Rp | 90.000,00 |
| 2) Wisma Nglajo I Standard | | | |
| a) Pegawai | Per hari / kamar | Rp | 35.000,00 |
| b) Pertamina | Per hari / kamar | Rp | 85.000,00 |
| c) Umum | Per hari / kamar | Rp | 110.000,00 |
| 3) Wisma Nglajo I VIP | | | |
| a) Pegawai | Per hari / kamar | Rp | 90.000,00 |
| b) Pertamina | Per hari / kamar | Rp | 180.000,00 |

| JENIS PENERIMAAN NEGARA BUKAN PAJAK | SATUAN | TARIF | |
|---|------------------|-------|------------|
| c) Umum | Per hari / kamar | Rp | 240.000,00 |
| 4) Wisma Sarangan | | | |
| a) Pegawai | Per hari / kamar | Rp | 25.000,00 |
| b) Pertamina | Per hari / kamar | Rp | 50.000,00 |
| c) Umum | Per hari / kamar | Rp | 75.000,00 |
| 5) Widya Patra I, II | | | |
| a) Pegawai | Per hari / kamar | Rp | 25.000,00 |
| b) Pertamina | Per hari / kamar | Rp | 75.000,00 |
| c) Umum | Per hari / kamar | Rp | 90.000,00 |
| 6) Widya Patra III | | | |
| a) Pegawai | Per hari / kamar | Rp | 25.000,00 |
| b) Pertamina | Per hari / kamar | Rp | 75.000,00 |
| c) Umum | Per hari / kamar | Rp | 90.000,00 |
| 7) Asrama Vyatra I,II,III,IV,VI | | | |
| a) Pegawai | Per hari / kamar | Rp | 15.000,00 |
| b) Pertamina | Per hari / kamar | Rp | 35.000,00 |
| c) Umum | Per hari / kamar | Rp | 60.000,00 |
| 8) Asrama Vyatra V | | | |
| a) Pegawai | Per hari / kamar | Rp | 20.000,00 |
| b) Pertamina | Per hari / kamar | Rp | 50.000,00 |
| c) Umum | Per hari / kamar | Rp | 85.000,00 |
| h. Penginapan di Mess untuk ujian sertifikasi | Per orang/ paket | Rp | 250.000,00 |
| i. Shooting Video | Per hari | Rp | 90.000,00 |
| j. Bengkel | | | |

| JENIS PENERIMAAN NEGARA BUKAN PAJAK | SATUAN | TARIF |
|--|------------------|-----------------|
| 1) Balancing | Per roda | Rp 5.000,00 |
| 2) Spooling | Per kendaraan | Rp 20.000,00 |
| C. PUSDIKLAT TEKNOLOGI MINERAL DAN BATUBARA | | |
| 1. Jasa Pendidikan dan Latihan | | |
| a. Jasa Penyelenggaraan Pendidikan dan Pelatihan Bidang Teknologi Mineral dan Batubara di Kampus | | |
| 1) Tingkat Manajerial | Per orang / hari | Rp 450.000,00 |
| 2) Tingkat Teknisi | Per orang / hari | Rp 400.000,00 |
| b. Jasa Penyelenggaraan Pendidikan dan Pelatihan Bidang Teknologi Mineral dan Batubara di luar Kampus | | |
| 1) Tingkat Manajerial | Per orang / hari | Rp 350.000,00 |
| 2) Tingkat Teknisi | Per orang / hari | Rp 300.000,00 |
| c. Jasa Pelayanan Konsultasi/Bimbingan bidang diklat Teknologi Mineral dan Batubara | | |
| d. Jasa Perbantuan Tenaga Ahli Bidang Teknologi Mineral dan Batubara | Per orang / hari | Rp 290.000,00 |
| e. Jasa Perancangan Sistem Komputerisasi Bidang Teknologi Mineral dan Batubara, | Per orang / hari | Rp 290.000,00 |
| f. Jasa Informasi dan Publikasi Bidang Teknologi Mineral dan Batubara | Per orang / hari | Rp 290.000,00 |
| 2. JASA PELAYANAN UMUM | | |
| a. Pemakaian Wisma | | |
| 1) Kamar Standard | | |
| a) Pegawai Intern DESDM | Per orang / hari | Rp 20.000,00 |
| b) Umum | Per orang / hari | Rp 30.000,00 |
| 2) Kamar VIP | | |
| a) Pegawai Intern DESDM | Per orang / hari | Rp 40.000,00 |
| b) Umum | Per orang / hari | Rp 60.000,00 |
| b. Pemakaian Gedung Pertemuan | | |
| 1) Auditorium, Kapasitas 750 orang | | |
| a) Kedinasan | Per hari | Rp 3.000.000,00 |
| b) Resepsi : | | |

| JENIS PENERIMAAN NEGARA BUKAN PAJAK | SATUAN | TARIF |
|---|------------------|-----------------|
| 1) Pegawai Intern DESDM | Per hari | Rp 2.000.000,00 |
| 2) Umum | Per hari | Rp 3.000.000,00 |
| 2) Cafeteria, Kapasitas 200 orang | . | . |
| a) Kedinasan | Per hari | Rp 1.500.000,00 |
| b) Resepsi : | | |
| 1) Pegawai Intern DESDM | Per hari | Rp 1.000.000,00 |
| 2) Umum | Per hari | Rp 1.500.000,00 |
| D. PUSDIKLAT GEOLOGI | | |
| Jasa Pendidikan dan Latihan | | |
| a. Jasa Penyelenggaraan Pendidikan dan Pelatihan Bidang Geologi di Kampus | | |
| 1) Tingkat Manajerial | Per orang / hari | Rp 450.000,00 |
| 2) Tingkat Teknisi | Per orang / hari | Rp 400.000,00 |
| b. Jasa Penyelenggaraan Pendidikan dan Pelatihan Bidang Geologi di luar Kampus | | |
| 1) Tingkat Manajerial | Per orang / hari | Rp 350.000,00 |
| 2) Tingkat Teknisi | Per orang / hari | Rp 300.000,00 |
| c. Jasa Pelayanan Konsultasi/Bimbingan bidang diklat Geologi | Per orang / hari | Rp 290.000,00 |
| d. Jasa Perbantuan Tenaga Ahli Bidang diklat Geologi | Per orang / hari | Rp 290.000,00 |
| e. Jasa Perancangan Sistem Komputerisasi Bidang diklat Geologi | Per orang / hari | Rp 290.000,00 |
| f. Jasa Informasi dan Publikasi Bidang diklat Geologi | Per orang / hari | Rp 290.000,00 |
| E. PUSDIKLAT ENERGI DAN KETENAGALISTRIKAN | | |
| 1. Jasa Pendidikan dan Latihan | | |
| a. Jasa Penyelenggaraan Pendidikan dan Pelatihan Bidang Energi dan Ketenagalistrikan di kampus | | |
| 1) Tingkat Manajerial | Per orang / hari | Rp 450.000,00 |
| 2) Tingkat Teknisi | Per orang / hari | Rp 400.000,00 |
| b. Jasa Penyelenggaraan Pendidikan dan Pelatihan Bidang Energi dan Ketenagalistrikan di luar Kampus | | |

| JENIS PENERIMAAN NEGARA BUKAN PAJAK | SATUAN | TARIF |
|--|------------------|-----------------|
| 1) Tingkat Manajerial | Per orang / hari | Rp 350.000,00 |
| 2) Tingkat Teknisi | Per orang / hari | Rp 300.000,00 |
| c. Jasa Pelayanan Konsultasi/Bimbingan bidang diklat Bidang Energi dan Ketenagalistrikan | Per orang / hari | Rp 290.000,00 |
| d. Jasa Perbantuan Tenaga Ahli Bidang Energi dan Ketenagalistrikan | Per orang / hari | Rp 290.000,00 |
| e. Jasa Perancangan Sistem Komputerisasi Bidang diklat Energi dan Ketenagalistrikan | Per orang / hari | Rp 290.000,00 |
| f. Jasa Informasi dan Publikasi Bidang diklat Energi dan Ketenagalistrikan | Per orang / hari | Rp 290.000,00 |
| 2. Jasa Pelayanan Umum | | |
| a. Jasa Pemakaian Kelas | | |
| 1) Pegawai DESDM | Per kelas/hari | Rp 100.000,00 |
| 2) Umum | Per kelas/hari | Rp 150.000,00 |
| b. Pemakaian Gedung Pertemuan/Auditorium | | |
| 1) Pegawai DESDM | Per hari | Rp 750.000,00 |
| 2) Umum | Per hari | Rp 1.500.000,00 |
| c. Pemakaian Laboratorium | | |
| 1) Laboratorium Pembangkit Listrik Tenaga Micro Hidro | Per orang/hari | Rp 100.000,00 |
| 2) Laboratorium Konservasi Energi | Per orang/hari | Rp 100.000,00 |
| 3) Laboratorium Konversi Energi | Per orang/hari | Rp 100.000,00 |
| 4) Laboratorium Teknik Instalasi Ketenagalistrikan | Per orang/hari | Rp 100.000,00 |
| 5) Laboratorium Teknik Lingkungan Ketenagalistrikan | Per orang/hari | Rp 100.000,00 |
| 6) Laboratorium Energi Baru dan Terbarukan | Per orang/hari | Rp 100.000,00 |

PRESIDEN REPUBLIK INDONESIA,

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MEGAWATI SOEKARNOPUTRI

Salinan sesuai dengan aslinya,
Deputi Sekretaris Kabinet
Bidang Hukum dan Perundang-undangan

Lambock V. Nahattands