

DEPARTEMEN PEKERJAAN UMUM  
DIREKTORAT JENDERAL CIPTA KARYA  
DIREKTORAT PENGEMBANGAN PENYEHATAN LINGKUNGAN PERMUKIMAN  
SATUAN KERJA PENGEMBANGAN PENYEHATAN LINGKUNGAN PERMUKIMAN JAWA TENGAH  
Jl. Gajah mungkur Selatan No.14-16 Semarang 50232 Telepon 024-8318138 Facsimile 024-8318138 e-mail sk\_pkp2djl@yahoo.com

# CONTRACT DOCUMENT

FOR

PACKAGE : C 1

SEMARANG PUMPING STATION AND RETARDING POND  
(CIVIL AND ARCHITECTURAL WORKS)

JICA LOAN IP 534

AMENDMENT 18<sup>th</sup>

Number : HK.02.03-CL.11/225/18

Dated : March 24<sup>th</sup>, 2014

VOLUME ONE

Number : HK.02.03-CL.11/225

Dated : November 26, 2009

BETWEEN

THE INDONESIAN GOVERNMENT  
REPRESENTING BY:

SATUAN KERJA PENGEMBANGAN PENYEHATAN  
LINGKUNGAN PERMUKIMAN  
JAWA TENGAH

AND

PT. ADHI KARYA (PERSERO) TBK – PT. PEMBANGUNAN PERUMAHAN  
(PERSERO) JOINT VENTURE

**AMENDMENT 18<sup>th</sup>**  
**CONTRACT AGREEMENT**  
INTEGRATED WATER RESOURCES AND FLOOD  
MANAGEMENT PROJECT FOR SEMARANG CITY  
(UNDER JICA LOAN IP 534)  
Number :HK.02.03-CL.11/225/18  
Dated : March 24<sup>th</sup>, 2014

CONTRACT PACKAGE C1:SEMARANG PUMPING  
STATION AND RETARDING POND  
(CIVIL AND ARCHITECTURAL WORKS)  
NO:HK.02.03-CL.11/225  
DATED:NOVEMBER 26,2009

AMENDMENT 1st No. HK.02.03-CL.11/225.1  
Dated June 10, 2010;

AMENDMENT 2<sup>nd</sup> No. HK.02.03-CL.11/225.2  
Dated July 12, 2010

AMENDMENT 3<sup>rd</sup> No. HK.02.03-CL.11/225.3  
Dated January 17, 2011

AMENDMENT 4<sup>th</sup> No.HK.02.03-CL.11/225.4  
Dated February 08, 2011

AMENDMENT 5<sup>th</sup> No. HK.02.03-CL.11/225.5  
Dated May 05, 2011

AMENDMENT 6<sup>th</sup> No. HK.02.03-CL.11/225.6  
Dated October 18, 2011

AMENDMENT 7<sup>th</sup> No. HK.02.03-CL.11/225.7  
Dated December 01,2011

AMENDMENT 8<sup>th</sup> No. HK.02.03-CL.11/225.8  
Dated June 19 ,2012

AMENDMENT 9th No.HK.02.03-CL.11/225/9  
Dated 27 June,2012

AMENDMENT10<sup>th</sup> No. HK.02.03-CL.11/225/10  
DateNovember 07, 2012

AMENDMENT10<sup>th</sup> No. HK.02.03-CL.11/225/11  
Date December 04, 2012

AMENDMENT 12<sup>th</sup> No. HK.02.03-CL.11/225/12  
Dated March 04, 2013

AMENDMENT 13<sup>th</sup> No. HK.02.03-CL.11/225/13  
Dated March14, 2013

AMENDMENT 14<sup>th</sup> No. HK.02.03-CL.11/225/14  
Dated June 12, 2013

AMENDMENT 15<sup>th</sup> No. HK.02.03-CL.11/225/15  
Dated July 22, 2013

**AMANDEMEN KE-18**  
**PERJANJIAN KONTRAK**  
PROYEK PENGENDALIAN BANJIR DAN SUMBER  
DAYA AIR TERPADU UNTUK KOTA SEMARANG  
(LOAN JICA IP 534)  
Nomor : HK.02.03-CL.11/225/18  
Tanggal: 24 Maret 2014

KONTRAK PACKAGE C1 : SETASIUN RUMAH  
POMPA DAN KOLAM RETENSI SEMARANG  
(PEKERJAAN SIPIL DAN ARSITEKTURAL)  
NO:HK.02.03-CL.11/225  
TANGGAL:26 NOVEMBER,2009

AMANDEMEN KE-1 No. HK.02.03-CL.11/225.1

Tanggal 10 Juni 2010;

AMANDEMEN KE-2 No. HK.02.03-CL.11/225.2  
Tanggal 12 Juli 2010

AMANDEMEN KE-3 No. HK.02.03-CL.11/225.3  
Tanggal 17 Januari 2011

AMANDEMEN KE-4 No.HK.02.03-CL.11/225.4  
Tanggal 08 Pebruari 2011

AMANDEMEN KE-5 No. HK.02.03-CL.11/225.5  
Tanggal 05 Mei 2011

AMANDEMEN KE-6 No. HK.02.03-CL.11/225.6  
Tanggal 18 Oktober 2011

AMANDEMEN KE-7 No. HK.02.03-CL.11/225.7  
Tanggal 01 Desember 2011

AMANDEMEN KE-8 No. HK.02.03-CL.11/225.8  
Tanggal 19 Juni 2012

AMANDEMEN KE-9 No.HK.02.03-CL.11/225/9  
Tanggal 27 Juni 2012

AMANDEMEN KE-10 No. HK.02.03-CL.11/225/10  
Tanggal 07 Nopember 2012

AMANDEMEN KE-11 No. HK.02.03-CL.11/225/11  
Tanggal 04 Desember 2012

AMANDEMEN KE-12 No. HK.02.03-CL.11/225/12  
Tanggal 04 Maret 2013

AMANDEMEN KE-13 No. HK.02.03-CL.11/225/13  
Tanggal 14 Maret 2013

AMANDEMEN KE-14 No. HK.02.03-CL.11/225/14  
Tanggal 12 Juni 2013

AMANDEMEN KE-15 No. HK.02.03-CL.11/225/15  
Tanggal 22 Juli 2013

AMENDMENT No.16th No.HK.02.03-CL.11/225/16  
Dated October 4th, 2013

AMENDMENT No.17<sup>th</sup> No.HK.02.03-CL.11/225/17  
Dated November 29<sup>th</sup>, 2013

AMANDEMEN KE 16 No. HK.02.03-CL.11/225/16  
Tanggal 4 Oktober 2013

AMANDEMEN KE 17 No. HK.02.03-CL.11/225/17  
Tanggal 29 November 2013

This Contract Amendment for Contract No. HK.02.03-CL.11/225, dated November 26, 2009, Amendment 1<sup>st</sup> No.HK.02.03-CL.11/225/1 Dated June 10, 2010, Amendment 2<sup>nd</sup> No.HK.02.03-CL.11/225/2 Dated July 12, 2010, Amendment 3<sup>rd</sup> No.HK.02.03-CL.11/225/3 Dated January 17, 2011, Amendment 4<sup>th</sup> No.HK.02.03-CL.11/225/4 Dated February 08, 2011, Amendment 5<sup>th</sup> .No.HK.02.03-CL.11/225/5 Dated May 05, 2011, Amendment 6<sup>th</sup> No.HK.02.03-CL.11/225/6 Dated October 18, 2011, Amendment 7<sup>th</sup> No.HK.02.03-CL.11/225/7 Dated December 01, 2011 Amendment 8<sup>th</sup> No.HK.02.03-CL.11/225/8 Dated June 19, 2012, Amendment 9<sup>th</sup> No.HK.02.03-CL.11/225/9 Dated June 27, 2012, Amendment 10<sup>th</sup> No.HK.02.03-CL.11/225/10 Dated November 07, 2012, Amendment 11<sup>st</sup> No. HK.02.03-CL.11/225/11 Dated December 04 2012, Amendment 12<sup>th</sup> No. HK.02.03-CL.11/225/12 Dated March 04, 2013, Amendment 13<sup>th</sup> No. HK.02.03-CL.11/225/13 Dated March 14, 2013, Amendment 14<sup>th</sup> No. HK.02.03-CL.11/225/14 Dated June 12, 2013, Amendment 15<sup>th</sup> No. HK.02.03-CL.11/225/15 Dated July 22nd, 2013, Amendment 16<sup>th</sup> No.HK.02.03-CL.11/225/16 Dated October 4, 2013 and Amendment 17<sup>th</sup> No.HK.02.03-CL.11/225/17 Dated November 29, 2013 PACKAGE C1 : EMARANG PUMPING STATION AND RETARDING POND (CIVIL AND ARCHITECTURAL WORKS), was made in Semarang on the day of Monday dated twenty four, in the month March, in the year of two thousand fourteen (24-03-2014);

Amandemen Kontrak ini untuk Kontrak No. HK.02.03-CL.11/225,tanggal 26 November,2009, Amandemen Ke-1 No. HK.02.03-CL.11/225/1 Tanggal 10 Juni 2010, Addendum Ke-2 No. HK.02.03-CL.11/225/2 Tanggal 12 Juli 2010, Addendum Ke-3 No. HK.02.03-CL.11/225/3 Tanggal 17 Januari 2011, Addendum Ke-4 No. HK.02.03-CL.11/225/4 Tanggal 8 Pebruari 2011, Addendum Ke-5 No. HK.02.03-CL.11/225/5 Tanggal 05 Mei 2011 Addendum Ke-6 No. HK.02.03-CL.11/225/6 Tanggal 18 Oktober 2011, AmandemenKe-7 No. HK.02.03-CL.11/225/7 Tanggal 01 Desember 2011, AmandemenKe-8 No. HK.02.03-CL.11/225/8 Tanggal 19 Juni 2012,AmandemenKe-9 No. HK.02.03-CL.11/225/9 Tanggal 27 Juni 2012, Amandemen Ke-10 No. HK.02.03-CL.11/225/10 Tanggal 07 Nopember2012 Amandemen ke 11 No. HK.02.03-CL.11/225/11 Tanggal 4 Desember 2012, Amandemen ke 12 No. HK.02.03-CL.11/225/12 Tanggal 4 Maret 2013, Amandemen ke 13 No. HK.02.03-CL.11/225/13 Tanggal 14 Maret 2013, Amandemen ke-14 No. HK.02.03-CL.11/225/14 Tanggal 12 Juni 2013, Amandemen ke-15 No. HK.02.03-CL.11/225/15 Tanggal 22 Juli 2013, Amandement ke-16 No.HK.02.03-CL.11/225/16 Tanggal 4 Oktober 2013 dan Amandemen ke-17 No.HK.02.03-CL.11/225/17 Tanggal 29 November 2013 PACKAGE C1 : SETASIUN RUMAH POMPA DAN KOLAM RETENSI SEMARANG (PEKERJAAN SIPIL DAN ARSITEKTURAL) dibuat di Semarang, pada hari Senin tanggal Dua puluh empat bulan Maret tahun Dua ribu empat belas (24-03-2014);

**Between**

Name : HOTMA ULITUA YS, ST.MT.  
 Position : Pejabat Pembuat Komitmen Pengembangan Infrastruktur PLP Metropolitan Satuan Kerja Pengembangan Penyehatan Lingkungan Permukiman Central Java  
 Address : Jln.Gajah Mungkur Selatan No.14-16 Semarang

**Antara**

Nama : HOTMA ULITUA YS, ST.MT.  
 Jabatan : Pejabat Pembuat Komitmen Pengembangan Infrastruktur PLP Metropolitan Satuan Kerja Pengembangan Penyehatan Lingkungan Permukiman Jawa Tengah  
 Alamat : Jln.Gajah Mungkur Selatan No.14-16 Semarang

On behalf of THE GOVERNMENT OF THE REPUBLIC OF INDONESIA,cq.Directorate General of Human Settlement,Ministry of Public Works, base on the Ministry Public Works decree Number : 108/KPTS/M/2013 dated March 05,2013 subject to variation of the Ministry of Public Works' s decree Nr. 444/KPTS/M/2011 tanggal 27 Nopember 2011, called as : **FIRST PARTY**

Yang berwenang dalam hal ini bertindak untuk dan atas nama PEMERINTAH REPUBLIK INDONESIA cq. Direktorat Jenderal Cipta Karya,Kementerian Pekerjaan Umum, berdasarkan Keputusan Menteri Pekerjaan Umum No : 108/KPTS/M/2013, tanggal 05 Maret 2013 tentang Perubahan Keputusan Menteri Pekerjaan Umum No. 444/KPTS/M/2011 tanggal 27 Nopember 2011, selanjutnya disebut : **PIHAK PERTAMA**

**With**

Name : Ir. BEP. ADJI SATMOKO, MM.  
 Position : Deputy Head of Construction IV Division PT.ADHI KARYA (Persero) Tbk.  
 Address : Jln.Gayung Kebonsari No.167A,Surabaya- 60231

**Dengan**

Nama : Ir. BEP. ADJI SATMOKO, MM.  
 Posisi : Deputi Kepala Divisi Konstruksi IV PT ADHI KARYA (Persero )Tbk.  
 Alamat : Jln.Gayung Kebonsari No.167A,Surabaya – 60231

On behalf of PT.ADHI KARYA (Persero) Tbk.-PT.PEMBANGUNAN PERUMAHAN (Persero) Joint Venture to execute the Component C:Urban Drainage System Improvement and Water Supply Works for Western Area of Semarang, PACKAGE C1: SEMARANG PUMPING STATION AND RETARDING POND (CIVIL AND ARCHITECTURAL WORKS), and base on Joint Venture Agreement recorded and registered by NOTARY : H.Sugeng Budiman,SH.Sp.N in Semarang, Number : Waar/530/VI/2013, dated June 12<sup>th</sup>, 2013 called as : **SECOND PARTY.**

Yang berwenang dalam hal ini bertindak untuk dan atas nama atas nama PT.ADHI KARYA (Persero) Tbk-PT.PEMBANGUNAN PERUMAHAN (Persero) Joint Venture untuk melaksanakan Proyek Pembangunan Komponen C:Perbaikan Sistem Drainasi Perkotaan dan Pekerjaan Sistem Air Bersih Untuk Wilayah Barat Kota Semarang ,PACKAGE C1: SETASIUN RUMAH POMPA DAN KOLAM RETENSI SEMARANG (PEKERJAAN SIPIL DAN ARSITEKTUR),sesuai dengan perjanjian Joint Venture yang tercatat dan terdaftar oleh NOTARIS :H.Sugeng

Budiman,SH.Sp.N di Semarang,Nomer : Waar/530/VI/2013, tanggal 12 Juni 2013, selanjutnya disebut :**PIHAK KEDUA**

**Witnessed**

Both parties have agreed to make the Contract Amendment which bound either party and forming an integral part of the Contract Agreement No :HK.02.03-CL.11/225, Dated November 26,2009, Amendment 1<sup>st</sup>.No.HK.02.03-CL.11/225/1 Dated June 10, 2010, Amendment 2<sup>nd</sup> .No.HK.02.03-CL.11/225/2 Dated July 12, 2010, Amendment 3<sup>rd</sup> .No.HK.02.03-CL.11/225/3 Dated January 17, 2011 ,Amendment 4<sup>th</sup> No.HK.02.03-CL.11/225/4 Dated February 08, 2011, Amendment 5<sup>th</sup> .No.HK.02.03-CL.11/225/5 Dated May 05, 2011, Amendment 6<sup>th</sup> .No.HK.02.03-CL.11/225/6 Dated October 18, 2011,Amendment 7<sup>th</sup> No.HK.02.03-CL.11/225/7 Dated December 01, and Amendment 8<sup>th</sup> No.HK.02.03-CL.11/225/8 Dated June 19, 2012, and Amendment 9<sup>th</sup>No.HK.02.03-CL.11/225/9 Dated June 27, 2012, Amendment 10<sup>th</sup> No.HK.02.03-CL.11/225/10 Dated November 07, 2012, Amendment 11th No. HK.02.03-CL.11/225/11 Dated December 04 ,2012, Amendment 12th No. HK.02.03-CL.11/225/12 Dated March 04, 2013, Amendment 13st No. HK.02.03-CL.11/225/13 Dated March 14, 2013, Amendment 14th No. HK.02.03-CL.11/225/14 Dated June 12, 2013, Amendment 15th No. HK.02.03-CL.11/225/15 Dated July 22, 2013, Amendment 16th No.HK.02.03-CL.11/225/16 Dated October 4,2013 and Amendment 17<sup>th</sup> No.HK.02.03-CL.11/225/17 Dated November 29, 2013 PACKAGE C1 : SEMARANG PUMPING STATION AND RETARDING POND (CIVIL AND ARCHITECTURAL WORKS) with the term as stipulated in the following articles

**Menyatakan**

Kedua belah pihak telah sepakat mengadakan Amandemen Kontrak yang saling mengikat dan merupakan satu kesatuan yang tidak terpisahkan dengan Surat Perjanjian (Kontrak) No. No :HK.02.03-CL.11/225, tanggal 26 November,2009, Amandemen Ke-1 No. HK.02.03-CL.11/225/1 Tanggal 10 Juni 2010, Amandemen Ke-2 No. HK.02.03-CL.11/225/2 Tanggal 12 Juli 2010, Amandemen Ke-3 No. HK.02.03-CL.11/225/3 Tanggal 17 Januari 2011, Amandemen Ke-4 No. HK.02.03-CL.11/225/4 Tanggal 8 Pebruari 2011, Amandemen Ke-5 No. HK.02.03-CL.11/225/5 Tanggal 05 Mei 2011 Amandem Ke-6 No. HK.02.03-CL.11/225/6 Tanggal 18 Oktober 2011, Amandemen Ke-7 No. HK.02.03-CL.11/225/7 Tanggal 01 Desember 2011,Amandemen Ke-8 No. HK.02.03-CL.11/225/8 Tanggal 19 Juni 2012Amandemen Ke-9 No. HK.02.03-CL.11/225/9 Tanggal 27 Juni 2012, Amandemen Ke-10 No. HK.02.03-CL.11/225/10 Tanggal 07 Nopember2012, Amandemen ke 11 No. HK.02.03-CL.11/225/11 Tanggal 4 Desember 2012, Amandemen ke 12 No. HK.02.03-CL.11/225/12Tanggal 4 Maret 2013, Amandemen ke 13 No. HK.02.03-CL.11/225/13 Tanggal 14 Maret 2013, Amandemen ke-14 No. HK.02.03-CL.11/225/14 Tanggal 12 Juni 2013, Amandemen ke-15 No. HK.02.03-CL.11/225/15 Tanggal 22 Juli 2013, Amandement ke-16 No.HK.02.03-CL.11/225/16 Tanggal 4 Oktober 2013 dan Amandement ke-17 No.HK.02.03-CL.11/225/17 Tanggal 29 November 2013 PACKAGE C1 : SETASIUN RUMAH POMPA DAN KOLAM RETENSI SEMARANG (PEKERJAAN SIPIL DAN ARSITEKTURAL) dengan ketentuan sebagaimana dituangkan dalam pasal-pasal berikut.

**Article 1**  
**The Basic of Amendment**

This Contract Amendment was made based on

- Contract Document for PACKAGE C1: SEMARANG PUMPING STATION AND RETARDING POND (CIVIL AND ARCHITECTURAL WORKS) VOLUME III Part I- General Condition of Contract Clause 51.1,51.2 and 52.1 .
- Minute of the contract implementation evaluation No. PR.04.03-CL.11/Pan-Pppk/ Eva-C1/18.5 dated 19 of March 2014;
- The Pejabat Pembuat Komitmen Pengembangan Infrastruktur PLP Metropolitan approval's letter No. KU.04.04-CL.11/160.1 dated 21 of March, 2014, subject to contract variation order.

**Pasal 1**  
**Dasar Amandemen**

Amandemen Kontrak ini dibuat berdasarkan

- Dokumen Kontrak PACKAGE C1: SETASIUN RUMAH POMPA DAN KOLAM RETENSI (PEKERJAAN SIPIL DAN ARSITEKTURAL) VOLUME III Part I- General Condition of Contract Clause 51.1,51.2 and 52.1
- Berita Acara Penelitian Pelaksanaan Kontrak No. PR.04.03-CL.11/Pan-Pppk/Eva-C1/18.5 tanggal 19 Maret 2014;
- Surat Pejabat Pembuat Komitmen Pengembangan Infrastruktur PLP Metropolitan No. KU.04.04-CL.11/ 160.1 tanggal 21 maret 2014 perihal persetujuan perubahan kontrak.

**Article 2**  
**Contract Price**

Contract amendment with the remain unchanged contract value as follow :

Contract Value :

Rp.194,149,660,419.00

(In word : One Hundred Ninety Four Billion One Hundred Forty Nine Million Six Hundred Sixty Thousand Four Hundred and Nineteen 0/00 Rupiah ) including Value Added Tax (VAT) 10% ;

Which consist of :

- Local Currency Portion (Rupiah)  
Rp. 176,499,691,290.00  
(In word : One Hundred Seventy Six Billion Four Hundred Ninety Nine Million Six Hundred Ninety One Thousand Two Hundred and Ninety 0/00 Rupiah); and
- Value Added Tax (VAT) 10% in the amount of :  
Rp. 17,649,969,129.00  
(In word : Seventeen Billion Six Hundred Forty Nine Million Nine Hundred Sixty Nine Thousand One Hundred and Twenty Nine

**Pasal 2**  
**Nilai Kontrak**

Perubahan Kontrak dengan Nilai Kontrak tetap, sebagai berikut :

Nilai Kontrak :

Rp.194.149.660.419,00

(Terbilang :Seratus Sembilan Puluh Empat Miliar Seratus Empat Puluh Sembilan Juta Enam Ratus Enam Puluh Ribu Empat Ratus Sembilan Belas 0/00 Rupiah) termasuk Pajak Pertambahan Nilai (PPN) 10%.

Yang terdiri dari :

Porsi Mata Uang Lokal (Rupiah)

Rp.176.499.691.290,00

(Terbilang : SeratusTujuh Puluh Enam Miliar Empat Ratus Sembilan Puluh Sembilan Juta Enam Ratus Sembilan Puluh Satu Ribu Dua Ratus Sembilan Puluh 0/00 Rupiah); dan

- Pajak Pertambahan Nilai (PPN) 10% sebesar :  
Rp. 17.649.969.129,00  
(Terbilang :Tujuh Belas Miliar Enam Ratus

0/00 Rupiah )

the Contract Price excluding the 10% Value Added Tax (VAT) are consist of :

- JICA Portion (IP534)

**Rp. 176,499,691,290.00**

(In word : One Hundred Seventy Six Billion Four Hundred Ninety Nine Million Six Hundred Ninety One Thousand Two Hundred and Ninety 0/00 Rupiah); and

- Associate Portion (GOI)

**Rp.0.00**

(In word : Null Only)

Empat Puluh Sembilan Juta Sembilan Ratus Enam Puluh Sembilan Seratus Dua Puluh Sembilan 0/00 Rupiah)

Harga Kontrak tidak termasuk Pajak Pertambahan Nilai (PPN) 10% terdiri dari :

- Porsi JICA (IP 534)

**Rp.176.499.691.290,00**

(Terbilang : SeratusTujuh Puluh Enam Milyar Empat Ratus Sembilan Puluh Sembilan Juta Enam Ratus Sembilan Puluh Satu Ribu Dua Ratus Sembilan Puluh 0/00 Rupiah); dan

- Porsi Pendamping (GOI)

**Rp.0.00**

(Terbilang : Nol Rupiah)

### Article 3 Closed

Clauses as stated on the Contract Agreement PACKAGE C1; SEMARANG PUMPING STATION AND RETARDING POND (CIVIL AND ARCHITECTURAL WORKS) No :HK.02.03-CL.11/225,dated November 26,2009, Amendment 1<sup>st</sup>.No.HK.02.03-CL.11/225/1 Dated June 10, 2010, Amendment 2<sup>nd</sup> .No.HK.02.03-CL.11/225/2 Dated July 12, 2010, Amendment 3<sup>rd</sup> .No.HK.02.03-CL.11/225/3 Dated January 17, 2011 ,Amendment 4<sup>th</sup> No.HK.02.03-CL.11/225/4 Dated February 08, 2011, Amendment 5<sup>th</sup> .No.HK.02.03-CL.11/225/5 Dated May 05, 2011, Amendment 6<sup>th</sup> .No.HK.02.03-CL.11/225/6 Dated October 18, 2011, Amendment 7<sup>th</sup> No.HK.02.03-CL.11/225/7 Dated December 01, 2011 Amendment 8<sup>th</sup> No.HK.02.03-CL.11/225/8 Dated June 19, 2012 and Amendment 9<sup>th</sup>No.HK.02.03-CL.11/225/9 Dated June 27, 2012, Amendment 10<sup>th</sup> No.HK.02.03-CL.11/225/10 Dated November 07, 2012, Amendment 11st No. HK.02.03-CL.11/225/11 Dated December 04,2012, Amendment 12st No. HK.02.03-CL.11/225/12 Dated March 04, 2013, Amendment 13st No. HK.02.03-CL.11/225/13 Dated March14, 2013, Amendment 14st No. HK.02.03-CL.11/225/14

### Passal 3 Penutup

A. Ketentuan yang tercantum didalam Surat Perjanjian (Kontrak) PACKAGE C1 :SETASIUN RUMAH POMPA SEMARANG DAN KOLAM RETENSI (PEKERJAAN SIPIL DAN ARSITEKTURAL) No. HK.02.03-CL.11/225, tanggal 26 November 2009, Amandemen Ke-1 No. HK.02.03-CL.11/225/1 Tanggal 10 Juni 2010, Amandemen Ke-2 No. HK.02.03-CL.11/225/2 Tanggal 12 Juli 2010, Amandemen Ke-3 No. HK.02.03-CL.11/225/3 Tanggal 17 Januari 2011, AmandemenKe-4 No. HK.02.03-CL.11/225/4 Tanggal 8 Pebruari 2011, AmandemenKe-5 No. HK.02.03-CL.11/225/5 Tanggal 05 Mei 2011 AmandemenKe-6 No. HK.02.03-CL.11/225/6 Tanggal 18 Oktober 2011, AmandemenKe-7 No. HK.02.03-CL.11/225/7 Tanggal 01 Desember 2011 Amandemenke-8 No. HK.02.03-CL.11/225/8 Tanggal 19 Juni 2012 dan Amandemen Ke-9 No. HK.02.03-CL.11/225/9 Tanggal 27 Juni 2012,Amandemen Ke-10 No. HK.02.03-CL.11/225/10 Tanggal 07 Nopember2012, Amandemen ke 11 No. HK.02.03-CL.11/225/11 Tanggal 4 Desember 2012, Amandemen ke 12 No. HK.02.03-

Dated June 12, 2013, Amendment 15th No. HK.02.03-CL.11/225/15 Dated July 22, 2013, Amendment 16th No.HK.02.03-CL.11/225/16 Dated October 4, 2013 and Amendment 17<sup>th</sup> No.HK.02.03-CL.11/225/17 Dated November 29, 2013 are remain valid except to those items that had been change in this Contract Amendment.

CL.11/225/12 Tanggal 4 Maret 2013,  
Amandemen ke 13 No. HK.02.03-CL.11/225/13 Tanggal 14 Maret 2013,  
Amandemen ke-14 No. HK.02.03-CL.11/225/14 Tanggal 12 Juni 2013,  
Amandemen ke-15 No. HK.02.03-CL.11/225/15 Tanggal 22 Juli 2013,  
Amandemen ke-16 No.HK.02.03-CL.11/225/16 Tanggal 4 Oktober 2013 dan  
Amandemen ke-17 No.HK.02.03-CL.11/225/17 Tanggal 29 November 2013 tetap berlaku terkecuali yang telah dirubah pada Amandemen Kontrak ini.

This Contract Amendment and its associated appendices is forming as integral part of the Contract Agreement No. HK.02.03-CL.11/225 dated 26,November 2009 Amendment 1<sup>st</sup>.No.HK.02.03-CL.11/225/1 Dated June 10, 2010, Amendment 2<sup>nd</sup> .No.HK.02.03-CL.11/225/2 Dated July 12, 2010, Amendment 3<sup>rd</sup> .No.HK.02.03-CL.11/225/3 Dated January 17, 2011 , Amendment 4<sup>th</sup> No.HK.02.03-CL.11/225/4 Dated February 08, 2011, Amendment 5<sup>th</sup> .No.HK.02.03-CL.11/225/5 Dated May 05, 2011, Amendment 6<sup>th</sup> .No.HK.02.03-CL.11/225/6 Dated October 18, 2011 and Amendment 7<sup>th</sup> No.HK.02.03-CL.11/225/7 Dated December 01, 2011, 2011 Amendment 8<sup>th</sup> No.HK.02.03-CL.11/225/8 Dated June 19, 2012, Amendment 9<sup>th</sup>No.HK.02.03-CL.11/225/9 Dated June 27, 2012, Amendment 10<sup>th</sup> No.HK.02.03-CL.11/225/10 Dated November 07, 2012, Amendment 11st No. HK.02.03-CL.11/225/11 Dated December 04, 2012, Amendment 12st No. HK.02.03-CL.11/225/12 Dated March 04, 2013, Amendment 13st No. HK.02.03-CL.11/225/13 Dated March 14, 2013, and Amendment 14st No. HK.02.03-CL.11/225/14 Dated June 12, 2013, Amendment 15th No. HK.02.03-CL.11/225/15 Dated July 22, 2013, Amendment 16th No.HK.02.03-CL.11/225/16 Dated October 4, 2013 and Amendment 17<sup>th</sup> No.HK.02.03-CL.11/225/17 Dated November 29, 2013 PACKAGE C1 :SEMARANG PUMPING STATION AND RETARDING POND (CIVIL AND ARCHITECTURAL WORKS) and made on 2 (two) set original and 10 (ten) set copies, affixed

B. Amandemen Kontrak ini,beserta lampirannya merupakan satu kesatuan yang tidak terpisahkan dengan Surat Perjanjian (Kontrak) No :HK.02.03-CL.11/225, tanggal 26,November 2009 Amandemen Ke-1 No. HK.02.03-CL.11/225/1 Tanggal 10 Juni 2010, Amandemen Ke-2 No. HK.02.03-CL.11/225/2 Tanggal 12 Juli 2010, Amandemen Ke-3 No. HK.02.03-CL.11/225/3 Tanggal 17 Januari 2011, AmandemenKe-4 No. HK.02.03-CL.11/225/4 Tanggal 8 Pebruari 2011, Amandemen Ke-5 No. HK.02.03-CL.11/225/5 Tanggal 05 Mei 2011 Amandemen Ke-6 No. HK.02.03-CL.11/225/6 Tanggal 18 Oktober 2011, Amandemen Ke-7 No. HK.02.03-CL.11/225/7 Tanggal 01 Desember 2011, AmandemenKe-8 No. HK.02.03-CL.11/225/8 Tanggal 19 Juni2012 Amandemen Ke-9 No. HK.02.03-CL.11/225/9 Tanggal 27 Juni 2012,Amandemen Ke-10 No. HK.02.03-CL.11/225/10 Tanggal 07 Nopember2012, Amandemen ke 11 No. HK.02.03-CL.11/225/11 Tanggal 4 Desember 2012,Amandemen ke 12 No. HK.02.03-CL.11/225/12 Tanggal 4 Maret 2013, Amandemen ke 13 No. HK.02.03-CL.11/225/13 Tanggal 14 Maret 2013, Amandemen ke-14 No. HK.02.03-CL.11/225/14 Tanggal 12 Juni2013, Amandemen ke-15 No. HK.02.03-CL.11/225/15 Tanggal 22 Juli2013, Amandemen ke-16 No.HK.02.03-CL.11/225/16 Tanggal 4 Oktober 2013 dan Amandemen ke-17 No.HK.02.03-CL.11/225/17 Tanggal 29 November 2013

with sufficient stamp duty, shall remain in force, provided that such particulars conceivably modify and amend as necessary required in the future, subject to the occurrence of such incorrectness of this Contract Amendment

PACKAGE C1: SETASIUN RUMAH POMPA DAN KOLAM RETENSI SEMARANG (PEKERJAAN SIPIL DAN ARSITEKTURAL) dan dibuat dalam rangkap 2(dua) asli dan 10 (sepuluh) salinan, bermeterai cukup yang masing-masing mempunyai kekuatan hukum sama, dengan ketentuan bahwa segala sesuatu akan diubah dan diperbaiki sebagaimana mestinya, jika dikemudian hari ternyata terdapat kekeliruan didalam Amandemen Kontrak ini.

IN WITNESS WHEREOF, the parties hereto have caused the Contract Amendment to be executed and agree, in accordance with their respective laws in Indonesia as of the day ,date month and year first above written.

DENGAN KESAKSIAN INI, pihak-pihak yang bersangkutan, telah menandatangani Amandemen Surat Perjanjian untuk dilaksanakan dan setuju sesuai dengan peraturan perundang-undangan yang berlaku di Indonesia pada hari,tanggal, bulan dan tahun seperti pada yang tercantum di atas.

For and on behalf

PT. ADHI KARYA (Persero) Tbk-  
PT. PEMBANGUNAN PERUMAHAN (Persero) Tbk.

Joint Venture



 Ir. BEP. ADJI SATMOKO, MM

In the capacity of Head of Construction IV  
Division PT. ADHI KARYA (Persero) Tbk.

Duly authorized to sign the Contract

For and behalf of

PT. ADHI KARYA (Persero) Tbk-PT PP (Persero)  
Joint Venture

For and on behalf of :

Government of The Republic of Indonesia  
Ministry of Public Works Directorate General of



 HOTMA ULITUA Y S, ST.MT

In the capacity of Pejabat Pembuat Komitmen  
Pengembangan Infrastruktur PLP Metropolitan  
for the Satuan kerja

Pengembangan Penyehatan Lingkungan  
Permukiman Jawa Tengah



**KEMENTERIAN PEKERJAAN UMUM**  
**DIREKTORAT JENDERAL CIPTA KARYA**  
**DIREKTORAT PENGEMBANGAN PENYEHATAN LINGKUNGAN PERMUKIMAN**  
**SATUAN KERJA PENGEMBANGAN PENYEHATAN LINGKUNGAN PERMUKIMAN JAWA TENGAH**  
Jl. Gajah Mungkur Selatan No. 14-16 Semarang 50232 Telepon 024-8318138 Facsimile 024-8318138 e-mail : pkplp\_jateng@yahoo.com

Nomor : KU.04.04-CL.11/160.1  
Lampiran : 1 (satu) berkas

Semarang, 21 Maret 2014

Kepada Yth :

Panitia Peneliti Pelaksanaan Kontrak  
Satuan Kerja Pengembangan PLP Jawa Tengah

di

S E M A R A N G

Perihal : **Persetujuan Perubahan Kontrak**

Menunjuk surat saudara nomor : PR.04.03-CL.11/Pan-Pppk/Us-C1/18.6 tanggal 20 maret 2014 tentang usulan perubahan kontrak, dengan ini kami sampaikan bahwa kami menyetujui perubahan kontrak tersebut sebagai berikut :

Isi Perjanjian Butir 7 : Nilai Kontrak

Perubahan Kontrak dengan Nilai tetap, sebagai berikut :

Nilai Kontrak :

Rp. 194,149,660,419.00

(Terbilang : Seratus Sembilan Puluh Empat Miliar Seratus Empat Puluh Sembilan Juta Enam Ratus Enam Puluh Ribu Empat Ratus Sembilan Belas Rupiah) termasuk Pajak Pertambahan Nilai (PPN) 10%.

Yang terdiri dari :

• Porsi Mata Uang Lokal (Rupiah)

Rp. 176,499,691,290.00

(Terbilang : Seratus Tujuh Puluh Enam Miliar Empat Ratus Sembilan Puluh Sembilan Juta Enam Ratus Sembilan Puluh Satu Ribu Dua Ratus Sembilan Puluh Rupiah); dan

Pajak Pertambahan Nilai (PPN) 10% sebesar :

Rp. 17,649,969,129.00

(Terbilang : Tujuh Belas Miliar Enam Ratus Empat Puluh Sembilan Juta Sembilan Ratus Enam Puluh Sembilan Ribu Seratus Dua Puluh Sembilan Rupiah)

Harga Kontrak tidak termasuk Pajak Pertambahan Nilai (PPN) 10% terdiri dari :

Porsi JICA (IP 534)

Rp. 176,499,691,290.00

(Terbilang : Seratus Tujuh Puluh Enam Miliar Empat Ratus Sembilan Puluh Sembilan Juta Enam Ratus Sembilan Puluh Satu Ribu Dua Ratus Sembilan Puluh Rupiah); dan

Porsi Pendamping (GOI)

Rp.0.00

(Terbilang : Nol Rupiah )

Demikian disampaikan dan untuk dapat dilaksanakan sebagaimana mestinya.

Pejabat Pembuat Komitmen  
Pengembangan Infrastruktur PLP  
KEMENTERIAN METROPOLITAN,



HOTMA DILITUA YS,ST,MT

NIP 107181998032003

TEMBUSAN disampaikan kepada yth :

1. Kepala Satker Pengembangan PLP Jawa Tengah (sebagai Laporan);
2. Assisten Pelaksanaan Satuan Kerja PPLP Jawa Tengah;
3. Bendaharawan Satuan Kerja PPLP Jawa Tengah;
4. Penyedia Jasa PT ADHI KARYA (Persero) Tbk- PT PP (Persero) JV;
5. Oriental Consultant Company Ltd.;
6. Arsip.

**PANITIA PENELITI PELAKSANAAN KONTRAK  
SATUAN KERJA PENGEMBANGAN PENYEHATAN LINGKUNGAN  
PERMUKIMAN JAWA TENGAH**

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Nomor : PR.04.03-CL.11/Pan-Pppk/Us-C1/18.6  
lampiran : 1 (satu) berkas

Semarang, 20 maret 2014

Kepada Yth :  
Pejabat Pembuat Komitmen Pengembangan  
Infrastruktur PLP Metropolitan  
Satuan Kerja Pengembangan PLP Jawa Tengah

**E M A R A N G**

Berihal : **Usulan Perubahan Kontrak**

Menunjuk Kontrak Nomor : HK.02.03-CL.11/225 tanggal 26 November 2009 , Amandemen Ke-1 s.d Ke-17 dan Berita Acara Penelitian Pelaksanaan Kontrak No. PR.04.03-CL.11/Pan-Pppk/Eva-C1/18.5 tanggal 19 Maret 2014, maka bersama ini dengan hormat kami sampaikan usulan perubahan kontrak tersebut sebagai berikut :

Isi Perjanjian Butir 7 : Nilai Kontrak  
Perubahan Kontrak dengan Nilai tetap, sebagai berikut :

**Nilai Kontrak :**

**Rp. 194,149,660,419.00**

(Terbilang : Seratus Sembilan Puluh Empat Milyar Seratus Empat Puluh Sembilan Juta Enam Ratus Enam Puluh Ribu Empat Ratus Sembilan Belas Rupiah) termasuk Pajak Pertambahan Nilai (PPN) 10%.

Yang terdiri dari :

- **Porsi Mata Uang Lokal (Rupiah)**

**Rp. 176,499,691,290.00**

(Terbilang : Seratus Tujuh Puluh Enam Milyar Empat Ratus Sembilan Puluh Sembilan Juta Enam Ratus Sembilan Puluh Satu Ribu Dua Ratus Sembilan Puluh Rupiah); dan

- **Pajak Pertambahan Nilai (PPN) 10% sebesar :**

**Rp. 17,649,969,129.00**

(Terbilang : Tujuh Belas Milyar Enam Ratus Empat Puluh Sembilan Juta Sembilan Ratus Enam Puluh Sembilan Ribu Seratus Dua Puluh Sembilan Rupiah)

Harga Kontrak tidak termasuk Pajak Pertambahan Nilai (PPN) 10% terdiri dari :

- **Porsi JICA (IP 534)**

**Rp. 176,499,691,290.00**

(Terbilang : Seratus Tujuh Puluh Enam Milyar Empat Ratus Sembilan Puluh Sembilan Juta Enam Ratus Sembilan Puluh Satu Ribu Dua Ratus Sembilan Puluh Rupiah); dan

- Porsi Pendamping (GOI)  
Rp.0.00  
(Terbilang : Nol Rupiah )

Demikian kami sampaikan, atas perhatiannya diucapkan terima kasih.

Ketua Panitia  
Peneliti Pelaksanaan Kontrak,



EGI YUNIARTO ST., MT.  
NIP. 19800629 200812 1 001

TEMBUSAN disampaikan kepada yth :

1. Assisten Pelaksanaan Satuan Kerja PPLP Jawa Tengah
2. Bendaharawan Satuan Kerja PPLP Jawa Tengah
3. Oriental Consultant Company, Ltd.

OFFICIAL MINUTE OF  
CONTRACT IMPLEMENTATION EVALUATION

Number : PR.04.03-CL.11/Pan-Pppk/ Eva-C1/18.5  
Dated : March 19, 2014

CONTRACT PACKAGE C1 : SEMARANG PUMPING  
STATION AND RETARDING POND  
(CIVIL AND ARCHITECTURAL WORKS)  
NUMBER : HK.02.03-CL.11/225  
DATED : NOVEMBER 26,2009

AMENDMENT 1<sup>st</sup> No. HK.02.03-CL.11/225.1  
Dated June 10, 2010;

AMENDMENT 2<sup>nd</sup> No. HK.02.03-CL.11/225.2  
Dated July 12, 2010

AMENDMENT 3<sup>rd</sup> No. HK.02.03-CL.11/225.3  
Dated January 17, 2011

AMENDMENT 4<sup>th</sup> No. HK.02.03-CL.11/225.4  
Dated February 08, 2011

AMENDMENT 5<sup>th</sup> No. HK.02.03-CL.11/225.5  
Dated May 05, 2011

AMENDMENT 6<sup>th</sup> No. HK.02.03-CL.11/225.6  
Dated October 18, 2011

AMENDMENT 7<sup>th</sup> No. HK.02.03-CL.11/225.7  
Dated December 01,2011

AMENDMENT 8<sup>th</sup> No. HK.02.03-CL.11/225.8  
Dated June 19 ,2012

AMANDMENT 9<sup>th</sup> No. HK.02.03-CL.11/225/9  
Dated June 27, 2012

AMANDMENT 10<sup>th</sup> No. HK.02.03-CL.11/225/10  
Dated November 07, 2012

AMANDMENT 11<sup>th</sup> No. HK.02.03-CL.11/225/11  
Dated December 04, 2012

AMANDMENT 12<sup>th</sup> No. HK.02.03-CL.11/225/12  
Dated March 04, 2013

AMANDMENT 13<sup>th</sup> No. HK.02.03-CL.11/225/13  
Dated March 14, 2013

AMANDMENT 14<sup>th</sup> No. HK.02.03-CL.11/225/14  
Dated June 12, 2013

AMANDMENT 15<sup>th</sup> No. HK.02.03-CL.11/225/15  
Dated July 22, 2013

AMANDMENT No.16th No.HK.02.03-CL.11/225/16  
Dated October 4th, 2013

AMANDMENT No.17<sup>th</sup> No.HK.02.03-CL.11/225/17  
Dated November 29<sup>th</sup>, 2013

BERITA ACARA PENELITIAN  
PELAKSANAAN KONTRAK

Nomor : PR.04.03-CL.11/Pan-Pppk/Eva-C1/18.5  
Tanggal : 19 Maret 2014

KONTRAK PACKAGE C1 : SETASIUN RUMAH  
POMPA DAN KOLAM RETENSI SEMARANG  
(PEKERJAAN SIPIL DAN ARSITEKTURAL)  
NOMOR : HK.02.03-CL.11/225  
TANGGAL : 26 NOVEMBER,2009

AMANDEMEN KE-1 No. HK.02.03-CL.11/225.1  
Tanggal 10 Juni 2010;

AMANDEMEN KE-2 No. HK.02.03-CL.11/225.2  
Tanggal 12 Juli 2010

AMANDEMEN KE-3 No. HK.02.03-CL.11/225.3  
Tanggal 17 Januari 2011

AMANDEMEN KE-4 No. HK.02.03-CL.11/225.4  
Tanggal 08 Pebruari 2011

AMANDEMEN KE-5 No. HK.02.03-CL.11/225.5  
Tanggal 05 Mei 2011

AMANDEMEN KE-6 No. HK.02.03-CL.11/225.6  
Tanggal 18 Oktober 2011

AMANDEMEN KE-7 No. HK.02.03-CL.11/225.7  
Tanggal 01 Desember 2011

AMANDEMEN KE-8 No. HK.02.03-CL.11/225.8  
Tanggal 19 Juni, 2012

AMANDEMEN KE-9 No. HK.02.03-CL.11/225/9  
Tanggal 27 Juni 2012

AMANDEMEN KE-10 No. HK.02.03-CL.11/225/10  
Tanggal 07 Nopember 2012

AMANDEMEN KE-11 No. HK.02.03-CL.11/225/11  
Tanggal 04 Desember 2012

AMANDEMEN KE-12 No. HK.02.03-CL.11/225/12  
Tanggal 04 Maret 2013

AMANDEMEN KE-13 No. HK.02.03-CL.11/225/13  
Tanggal 14 Maret 2013

AMANDEMEN KE-14 No. HK.02.03-CL.11/225/14  
Tanggal 12 Juni 2013

AMANDEMEN KE-15 No. HK.02.03-CL.11/225/15  
Tanggal 22 Juli 2013

AMANDEMEN KE 16 No. HK.02.03-CL.11/225/16  
Tanggal 4 Oktober 2013

AMANDEMEN KE 17 No. HK.02.03-CL.11/225/17  
Tanggal 29 November 2013

**1. Basic of Contract Implementation's Evaluation**

- a. Contract Agreement NO. HK.02.03-CL.11/225 dated November 26, 2009.
- b. Notice To Proceed NO. KU.03.01-CL.11/233.2 dated December 09, 2009.
- c. JICA contract's concurrence No. IP-534/C-005, dated December 08, 2009.
- d. Contract Amendment No.1 up to No.17 upon the Contract Agreement Number HK.02.03-CL.11/225 dated November 26, 2009.
- e. Price Negotiation Agreement No. KU.04.04-CL.11/938.6 dated July 1, 2013
- f. Price Negotiation Agreement No. KU.04.04-CL.11/1013.2 dated September 17, 2013
- g. Price Negotiation Agreement No. KU.04.04-CL.11/1090 dated October 11, 2013
- h. Price Negotiation Agreement No. KU.04.04-CL.11/1157.2 dated November 14, 2013
- i. Price Negotiation Agreement No. KU.04.04-CL.11/1192.4 dated November 28, 2013
- j. Price Negotiation Agreement No. KU.04.04-CL.11/15.1 dated January 8, 2014
- k. Price Negotiation Agreement No. KU.04.04-CL.11/94.7 dated February 17, 2014

**1. Dasar Evaluasi Pelaksanaan Kontrak**

- a. Surat Perjanjian (Kontrak) No : HK.02.03-CL.11/225 tanggal 26 November 2009.
- b. Surat Perintah Mulai Kerja No : KU.03.01-CL.11/233.2 tanggal 9 Desember 2009.
- c. Persetujuan Kontrak JICA No : IP-534/C-005 tanggal 8 Desember 2009.
- d. Amandemen Kontrak Ke-1 s.d Ke-17 atas Surat Perjanjian (Kontrak) No : HK.02.03-CL.11/225 tanggal 26 November 2009.
- e. Persetujuan Negosiasi Harga Satuan No. KU.04.04-CL.11/938.6 tanggal 01 Juli 2013
- f. Persetujuan Negosiasi Harga Satuan No. KU.04.04-CL.11/1013.2 tanggal 17 September 2013
- g. Persetujuan Negosiasi Harga Satuan No. KU.04.04-CL.11/1090 tanggal 11 Oktober 2013
- h. Persetujuan Negosiasi Harga Satuan No. KU.04.04-CL.11/1157.2 tanggal 14 November 2013
- i. Persetujuan Negosiasi Harga Satuan No. KU.04.04-CL.11/1192.4 tanggal 28 November 2013
- j. Persetujuan Negosiasi Harga Satuan No. KU.04.04-CL.11/15.1 tanggal 8 Januari 2014
- k. Persetujuan Negosiasi Harga Satuan No. KU.04.04-CL.11/94.7 tanggal 17 Februari 2014

**2. Technical Evaluation**

- a. Site present condition
- 1) Calculation of the quantities of work that changed based on site conditions and design.
- 2) Addition of Type II SSP with 6 meters of length for reinforcing the structures of Retaining Wall Part B based on Engineer's design
- 3) Addition items of Embankment without compaction due to the embankment located under the water level in the area associated with River Closure, related to the item above

**2. Penelitian Teknis**

- a. Kondisi Lapangan , bahwa :
- 1) Perhitungan tambah kurang volume pekerjaan yang disesuaikan dengan kondisi lapangan dan desain
- 2) Penambahan SSP Type II panjang 6 meter untuk perkuatan struktur Retaining Wall Part B berdasarkan desain
- 3) Penambahan item *Embankment without compaction* karena timbunan berada di bawah elevasi muka air di area *River Closure* terkait dengan *River Closure* maka

- Dewatering and Temporary cofferdam method is required.
- 4) Additional quantities for embankment on item III.4.1 caused by design changes base on site condition
  - 5) Additional works in the item VI.2' Entrance Gate and Fence is needed in accordance with site conditions and Mini Pile 280x280x280, L = 3m required for the foundation (as designed)
  - 6) Additional works in the item IV.1.28 Floor Standing Air Conditioning 5 PK needed to keep the temperature in Panel House suitable for the equipment
  - 7) Additional work on items IV.1.24 and IV.1.25 Air Conditioner (AC - 2 PK and 1 ½ PK) Incl. Installation and Accessories needed to keep the suitable temperature in Pump Panel
  - 8) The Additional works to complete the work on item XIII Storage Building Area
  - 9) The Additional works on items IV.1.6.2 Acrylic Cover louver at Power and Control House building to prevent rain water splash into the building.
  - 10) The Additional works for Ground Reservoir on item XIV Ground Reservoir to store water for daily needs and fire Hydrant.

- b. Considering to the additional and deduction of the works, the amendment of works therefore be needed.

### 3. Administration Evaluation

- a. Contract Agreement Number : HK.02-03-CL.11/225 dated November 26,2009 including their Contract Amendment No.1 up to No.17
- b. Data as items 1.a. up to k. above.

diperlukan metode yaitu *Dewatering* dan *Temporary Cofferdam*

- 4) Penambahan volume timbunan pada item III.4.1 karena penyesuaian desain sesuai lapangan
- 5) Penambahan pekerjaan pada item VI.2' *Gate and Fence of Entrance* diperlukan karena penyesuaian kondisi lapangan dan dalam pelaksanaan pekerjaan tersebut diperlukan tiang pancang Mini Pile 280x280x280, L=3m sebagai pondasinya (sesuai desain)
- 6) Diperlukan pekerjaan pada item IV.1.28 *Air Conditioning 5 PK Floor Standing* adalah sebagai satu kegiatan untuk menjaga kesesuaian suhu peralatan yang ada di *Panel House*
- 7) Diperlukan pekerjaan pada item IV.1.24 dan IV.1.25 *Air Conditioner (AC - 2 PK dan 1 ½ PK) Incl. Installation and Accessories* adalah sebagai satu kegiatan untuk menjaga kesesuaian suhu pada panel pompa
- 8) Penambahan item baru untuk melengkapi pekerjaan pada bangunan *Storage* pada item XIII *Storage Building Area*
- 9) Diperlukan pekerjaan pada item IV.1.6.2 Acrylic Cover Louver pada bangunan *Power and Control House* adalah untuk mencegah air hujan masuk ke dalam bangunan.
- 10) Pekerjaan baru bangunan *Réserveoir* pada item XIV *Ground Reservoir* untuk menampung air untuk kebutuhan sehari-hari dan pemadam kebakaran

- b. Dengan prubahan tambah kurang tersebut maka diperlukan amandemen kontrak.

### 3. Penelitian Administrasi

- a. Surat Perjanjian (Kontrak) No. HK.02.03-CL.11/225 tanggal 26 November 2009 berikut Amendemen Kontrak Ke-1 s.d Ke-17.
- b. Data sesuai butir 1.a. s/d. k. tersebut diatas.

#### 4. Conclusion

Consider to the above fact, we the Committee, recommend to amend the above contract agreement with contract value remain unchanged as the following :

Content of the Article 7 : Contract Value

##### Contract Value :

Rp. 194,149,660,419.00

(In word : One Hundred Ninety Four Billion One Hundred Forty Nine Million Six Hundred Sixty Thousand Four Hundred and Nineteen Rupiah) including Value Added Tax (VAT) 10% ;

Which consist of :

- Local Currency Portion (Rupiah)

Rp. 176,499,691,290.00

(In word : One Hundred Seventy Six Billion Four Hundred Ninety Nine Million Six Hundred Ninety One Thousand and Two Hundred and Ninety Rupiah); and

- Value Added Tax (VAT) 10% in the amount of :

Rp. 17,649,969,129.00

(In word : Seventeen Billion Six Hundred Forty Nine Million Nine Hundred Sixty Nine Thousand One Hundred and Twenty Nine Rupiah )

The Contract Price excluding the 10% Value Added Tax (VAT) are consist of :

- JICA Portion (IP534)

Rp. 176,499,691,290.00

(In word : One Hundred Seventy Six Billion Four Hundred Ninety Nine Million Six Hundred Ninety One Thousand and Two Hundred and Ninety Rupiah); and

#### 4. Kesimpulan

Atas dasar hal-hal tersebut diatas, dengan ini Panitia merekomendasikan perubahan kontrak dengan nilai tetap, sebagai berikut :

Isi Perjanjian butir 7 : Nilai Kontrak

##### Nilai Kontrak :

Rp. 194,149,660,419.00

(Terbilang : Seratus Seembilan Puluh Empat Miliar Seratus Empat Puluh Sembilan Juta Enam Ratus Enam Puluh Ribu Empat Ratus Sembilan Belas Rupiah) termasuk Pajak Pertambahan Nilai (PPN) 10%.

Yang terdiri dari :

- Porsi Mata Uang Lokal (Rupiah)

Rp. 176,499,691,290.00

(Terbilang : Seratus Tujuh Puluh Enam Miliar Empat Ratus Sembilan Puluh Sembilan Juta Enam Ratus Sembilan Puluh Satu Ribu Dua Ratus Sembilan Puluh Rupiah); dan

- Pajak Pertambahan Nilai (PPN) 10% sebesar :

Rp. 17,649,969,129.00

(Terbilang : Tujuh Belas Milyar Enam Ratus Empat Puluh Sembilan Juta Sembilan Ratus Enam Puluh Sembilan Ribu Seratus Dua Puluh Sembilan Rupiah)

Harga Kontrak tidak termasuk Pajak

Pertambahan Nilai (PPN) 10% terdiri dari :

- Porsi JICA (IP 534)

Rp. 176,499,691,290.00

(Terbilang : Seratus Tujuh Puluh Enam Miliar Empat Ratus Sembilan Puluh Sembilan Juta Enam Ratus Sembilan Puluh Satu Ribu Dua Ratus Sembilan Puluh Rupiah); dan

- Associate Portion (GOI)  
Rp.0.00  
(In word : Null Only)

- Porsi Pendamping (GOI)  
Rp.0.00  
(Terbilang : Nol Rupiah)

So, this Minute of Evaluation was made with a full sense of responsibility and can be used as appropriate

Demikian Berita Acara dibuat dengan penuh rasa tanggung jawab untuk dapat dipergunakan sebagaimana mestinya

Approved by :

PT. ADHI KARYA (Persero) Tbk-  
PT. PEMBANGUNAN PERUMAHAN (Persero)

Joint Venture

JOINT VENTURE (JV)

Ir. BEP. ADI SATMOYO, MM

In the capacity of Head of Construction IV Division PT.  
ADHI KARYA (Persero) Tbk.

Duly authorized to sign the Contract

For and behalf of

PT. ADHI KARYA (Persero) Tbk-PT PP (Persero)  
Joint Venture

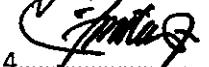
Panitia Peneliti Pelaksanaan Kontrak:

1. Egi Yuniarto, ST.MT.  
Ketua
2. M. Syukron Fikri, ST.MT  
Sekretaris
3. Larap Kemayan Estu, ST.  
Anggota
4. Suradi, ST  
Anggota
5. Subagyø, A.Md.  
Anggota

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**SUMMARY BILL OF QUANTITIES - EVALUATION AND COMPARISON OF BIDS**  
**DRAFT DETAIL BILL OF QUANTITIES - EVALUATION AND COMPARISON OF BIDS BETWEEN AMENDMENT-17 AND AMENDMENT-18**  
**PT. ADHI KARYA (Persero) Tbk - PT. PEMBANGUNAN PERUMAHAN (Persero) JOINT VENTURE**

THE EMPLOYER : SATUAN KERJA PENGEMBANGAN PENYEHATAN LINGKUNGAN PERMUKIMAN JAWA TENGAH  
 NAME OF PACKAGE : PACKAGE C 1  
 ITEM OF WORKS : SEMARANG PUMPING STATION AND RETARDING POND (CIVIL AND ARCHITECTURAL WORKS)  
 LOCATION : SEMARANG  
 SOURCE OF FUND : JICA LOAN IP 534  
 FISCAL YEAR : 2009/2010/2011/2012/2013/2014

SUMMARY BILL OF QUANTITIES - CORRECTED AMOUNT OF BIDS		PT. ADHI KARYA (Persero) Tbk - PT. PEMBANGUNAN PERUMAHAN (Persero) JOINT VENTURE			
		AMENDMENT-17 AMOUNT		AMENDMENT-18 AMOUNT	
WORK ITEM		Local Currency (Rp.)	Foreign Currency (No. FC)	Local Currency (Rp.)	Foreign Currency (No. FC)
Bill No. I :	General Items	1.216.328.000,00		1.216.328.000,00	
Bill No. II :	Pumping Station and Gate	61.600.113.891,57		62.879.368.294,46	
Bill No. III :	Retarding Pond	52.893.383.410,55		53.391.135.157,66	
Bill No. IV :	Buildings	16.919.603.004,58		16.712.616.601,96	
Bill No. V :	Trashrack (U/S), (Civil Works)	15.369.543.736,25		15.369.543.736,25	
Bill No. VI :	Miscellaneous Works	1.423.222.719,60		1.574.077.818,35	
Bill No. VII :	Baru River Works	1.120.037.100,76		1.209.979.494,58	
Bill No. VIII :	Supplying Maintenance Equipments	1.998.910.000,00		1.998.910.000,00	
Bill No. X :	BORING AND GROUTING WORKS	4.880.568.192,74		4.880.568.192,74	
Bill No. XI :	FENCING WORKS	1.304.405.913,93		1.418.692.664,10	
Bill No. XII :	FUEL TANK FOUNDATION	224.026.196,77		386.786.819,35	
Bill No. XIII :	Storage Building Area	691.294.249,73		1.682.273.082,61	
Bill No. XIV :	Ground Reservoir	-		477.647.316,95	
( 1 ) SUB TOTAL OF BILLS		159.641.436.416,00		163.197.927.178,00	
( 2 ) Provisional Sum for Daywork		798.436.000,00		798.436.000,00	
( 3 ) TOTAL OF BILLS AND DAYWORK		160.439.872.416,00		163.996.363.178,00	
( 4 ) Provisional Sum for Contingencies		6.059.818.874,00		2.503.328.112,00	
( 5 ) Provisional Sum for Escalation		10.000.000.000,00		10.000.000.000,00	
( 6 ) = ( 3 ) + ( 4 ) + ( 5 )		176.499.691.290,00		176.499.691.290,00	
( 7 ) = Amount of VAT ( 10 % of ( 6 ) )		17.649.969.129,00		17.649.969.129,00	
( 8 ) Total Amount Including VAT ((6) + (7)) (Carried forward to Form of Bid)		194.149.660.419,00		194.149.660.419,00	

For and On Behalf of : Semarang, March 19, 2014  
 Prepared by : Contract Amendment's Committee  
 Package C1 : Semarang Pumping Station and Retarding Pond  
 (Civil and Architectural Works)

PT. ADHI KARYA (Persero) Tbk - PT. PEMBANGUNAN PERUMAHAN (Persero)  
 JOINT VENTURE



Ir. BEP Adil Satmoko, MM  
 In the capacity of Head of Construction IV Division  
 PT. ADHI KARYA (Persero) Tbk

Nama	Occupation	Signature
1. Egi Yuniarto, ST.MT.	Chairperson	
2. M. Syukron Fikri, ST.MT.	Secretary	
3. Larap Kemayan Estu, ST.	Member	
4. Suradi, ST.	Member	
5. Subagyo, A.Md.	Member	

**DRAFT DETAIL BILL OF QUANTITIES - EVALUATION AND COMPARISON OF BIDS BETWEEN AMENDMENT-17 AND AMENDMENT-18 (REVISION-01)**  
**PT. ADHI KARYA (Persero) Tbk - PT. PEMBANGUNAN PERUMAHAN (Persero) JOINT VENTURE**

DOVER  
PACKAGE  
WORKS  
F FUND  
AR

: SATUAN KERJA PENGEMBANGAN PENYEHATAN LINGKUNGAN PERMUKIMAN JAWA TENGAH  
: PACKAGE C 1  
: SEMARANG PUMPING STATION AND RETARDING POND (CIVIL AND ARCHITECTURAL WORKS)  
: SEMARANG  
: JICA LOAN IP 534  
: 2009/2010/2011/2012/2013/2014

Description	Unit	QUANTITY					PT. ADHI KARYA (Persero) JOINT					Remark
		Contract	Amendment 17	Additional	Deductional	Amendment 18	Unit Price (Rp)	Amendment - 17 Local Currency (Rp)	Additional	Deductional	Amendment - 18 Local Currency (Rp)	
<b>GENERAL ITEMS</b>												
<i>Establishment</i>												
Temporary Construction Road	LS	1.00	1.00	-	-	1.00	350,000,000.00	350,000,000.00	-	-	350,000,000.00	
Contractor's Temporary Site Office and Facilities	LS	1.00	1.00	-	-	1.00	350,000,000.00	350,000,000.00	-	-	350,000,000.00	
Engineer's Temporary Site Office and Facilities	LS	1.00	1.00	-	-	1.00	250,000,000.00	250,000,000.00	-	-	250,000,000.00	
General item for extention time to december 2013	LS	-	1.00	-	-	1.00	266,328,000.00	266,328,000.00	-	-	266,328,000.00	
<b>TOTAL FOR BILL NO. I</b>							<b>1,216,328,000.00</b>		<b>0.00</b>	<b>0.00</b>	<b>1,216,328,000.00</b>	
<b>PUMPING STATION AND GATE</b>												
<i>Preparatory Works</i>												
Coffering and Dewatering	LS	1.00	1.00	-	-	1.00	1,413,772,669.39	1,413,772,669.39	-	-	1,413,772,669.39	
<i>Pumping Station and Gates</i>												
Structural Excavation for Pumping Station and Gates	m³	25,646.00	0.00	-	-	0.00	72,442.07	-	-	-	-	
Structural Excavation for Pumping Station and Gates	m³	-	36,704.89	-	-	36,704.89	71,612.32	2,628,522,328.24	-	-	2,628,522,328.24	
Excavation Below Water Level for Outlet Channel	m³	18,735.00	15,000.00	5,441.14	-	9,558.86	57,508.42	862,626,240.00	-	-	862,626,240.00	
Backfill with Selected Soil	m³	4,574.00	13,666.36	-	-	13,666.36	95,770.01	1,308,827,386.03	-	-	1,308,827,386.03	
Furnishing and Driving of PC Pile, D = 500 mm	m	10,641.00	0.00	-	-	0.00	729,642.27	-	-	-	-	
Furnishing of PC Pile, D = 500 mm	m	-	9,375.00	-	-	9,375.00	697,733.19	6,541,248,656.25	-	-	6,541,248,656.25	
Driving of PC Pile, D = 500 mm	m	-	7,834.84	-	-	7,834.84	31,909.08	250,002,536.35	-	-	250,002,536.35	
Furnishing and Driving of PC Pile, D = 400 mm	m	1,260.00	0.00	-	-	0.00	569,069.13	-	-	-	-	
Furnishing of PC Pile, D = 400 mm	m	-	3,624.00	-	-	3,624.00	539,240.63	1,954,208,043.12	-	-	1,954,208,043.12	
Driving of PC Pile, D = 400 mm	m	-	3,419.79	-	-	3,419.79	29,828.50	102,007,206.02	-	-	102,007,206.02	
Furnishing and Driving of PC Test Pile D = 500 mm	m	19.00	75.00	-	-	75.00	625,000.00	46,875,000.00	-	-	46,875,000.00	
Leveling Concrete K125, including Formwork	m³	41.00	84.71	-	-	84.71	864,930.15	73,268,233.01	-	-	73,268,233.01	
Leveling Concrete K125, including Formwork *)	m³	-	477.60	-	-	477.60	850,689.11	406,291,672.91	-	-	406,291,672.91	
Concrete K300, including Scaffolding and Formwork	m³	7,511.00	11,737.60	-	-	11,737.60	1,366,910.48	16,044,248,391.36	-	-	16,044,248,391.36	
Deformed Reinforcing Bars	Kg	751,100.00	948,812.17	-	-	948,812.17	11,143.13	10,572,732,611.83	-	-	10,572,732,611.83	
Furnishing and Driving Corrugated Concrete Sheet Pile type W 500	m	850.00	708.00	-	-	708.00	1,680,082.49	1,189,498,401.50	-	-	1,189,498,401.50	
Furnishing and Driving Corrugated Concrete Sheet Pile type W 350	m	4,332.00	1,027.00	36.00	-	1,063.00	1,246,076.17	1,279,720,227.10	44,858,742.14	-	1,324,578,969.24	Additional CCSP at Guide Wall (3*12)
Concrete Cap, K 300	m³	65.00	74.71	-	74.71	0.00	1,281,000.00	95,703,510.00	-	95,703,510.00	-	Omitted
Furnishing and Driving of Steel Sheet Pile Type II	m	2,550.00	2,577.00	-	-	2,577.00	763,489.95	1,967,513,612.75	-	-	1,967,513,612.75	
Furnishing and Driving of Steel Sheet Pile Type II *)	m	-	807.00	630.00	-	1,437.00	669,889.61	540,600,911.24	422,030,451.15	-	962,631,362.39	Additional at retainig wall part B (105*6)
Water Stop, w = 200 mm	m	34.00	279.66	-	-	279.66	200,000.00	55,931,200.00	-	-	55,931,200.00	
Dowel Bar D = 19 mm, L = 1 m and PVC Pipe	Kg	479.00	870.00	-	-	870.00	25,489.81	22,176,138.34	-	-	22,176,138.34	
Dowel Bar D = 19 mm, L = 1 m and PVC Pipe *)	Kg	-	1,332.64	-	-	1,332.64	23,232.00	30,959,892.48	-	-	30,959,892.48	
Gabion Mattress	m³	103.00	517.75	-	517.75	0.00	546,700.00	283,053,925.00	-	283,053,925.00	-	Not mentioned in design
Hole, PVC pipe D = 100 mm, L = 600 mm	No.	84.00	84.00	-	-	84.00	45,000.00	3,780,000.00	-	-	3,780,000.00	
Hand Rail , D = 50 mm, Galvanized Steel Pipe	Kg	1,005.00	10,448.19	-	-	10,448.19	22,325.63	233,262,371.87	-	-	233,262,371.87	
Asphalt Concrete, t = 50 mm	ton	13.00	67.38	-	-	67.38	900,000.00	60,642,000.00	-	-	60,642,000.00	
Concrete Parapet K 300	m³	42.00	35.57	-	35.57	0.00	1,281,000.00	45,565,170.00	-	45,565,170.00	-	Omitted
Embankment	m³	7,709.00	7,483.25	-	-	7,483.25	155,898.23	1,166,625,392.23	-	-	1,166,625,392.23	
Embankment *)	m³	-	0.00	-	-	0.00	-	-	-	-	-	
Steel Door	LS	1.00	1.00	-	-	1.00	169,391,250.00	169,391,250.00	-	-	169,391,250.00	
Aluminium Window	LS	1.00	1.00	-	-	1.00	121,630,005.00	121,630,005.00	-	-	121,630,005.00	
Manhole Cover Steel	Kg	484.00	0.00	-	-	0.00	29,700.04	-	-	-	-	
Manhole Cover Steel *)	Kg	-	0.00	-	-	0.00	21,018.80	-	-	-	-	
Stainless Steel Pipe, D=250 mm	Kg	275.00	275.00	-	-	275.00	155,000.00	42,625,000.00	-	-	42,625,000.00	
Stainless Steel Pipe, D=250 mm *)	Kg	-	1,395.70	-	1,321.83	73.87	140,559.05	196,178,259.11	-	185,795,645.98	10,382,613.13	Not mentioned in design
Stainless Steel Guide Frame	Kg	204.00	204.00	-	-	204.00	155,000.00	31,620,000.00	-	-	31,620,000.00	
Stainless Steel Guide Frame *)	Kg	-	5,662.33	-	-	5,662.33	128,323.53	726,610,145.31	-	-	726,610,145.31	
Furnishing and Driving of PC Pile, D = 500 mm, type A1	m'	-	10,826.00	-	-	10,826.00	632,517.27	6,847,631,965.02	-	-	6,847,631,965.02	
Furnishing and Driving of PC Pile, D = 400 mm, type A2	m'	-	6,040.00	-	-	6,040.00	432,569.13	2,612,717,545.20	-	-	2,612,717,545.20	
Sand Bedding	m³	-	5.98	-	-	5.98	143,115.00	855,208.71	-	-	855,208.71	
Concrete Block Pavement K 400, 200x100x100 mm	m²	-	119.51	-	-	119.51	146,020.00	17,451,360.83	-	-	17,451,360.83	
Joint Filler 10 mm (Elastic material)	m²	-	152.65	-	-	152.65	225,0					

No	Description	Unit	QUANTITY					PT. ADHI KARYA (Persero) JOINT						Remark
			Contract	Amendment 17	Additional	Deductional	Amendment 18	Unit Price (Rp)	Amendment - 17 Local Currency (Rp)	Additional	Deductional	Amendment - 18 Local Currency (Rp)		
	Furnishing and placing Geotextile Bag (3.40 x 1.00 x .050 m), included soil backfilling a cross the river	pcs	-	400.00	-	-	400.00	398,000.00	159,200,000.00	-	-	-	159,200,000.00	
	Furnishing and placing HDPE Geomembrane (t = 0,75 mm)	m <sup>2</sup>	-	803.88	-	-	803.88	49,000.00	39,390,120.00	-	-	-	39,390,120.00	
	Wooden Pile, D = 70 mm L = 4 m, ctc = 0,5 m	m	-	348.00	-	-	348.00	17,250.36	6,003,125.28	-	-	-	6,003,125.28	
	Aggregate Class A	m <sup>3</sup>	-	36.62	-	-	36.62	266,798.52	9,771,229.05	-	-	-	9,771,229.05	
	Aggregate Class B	m <sup>3</sup>	-	41.23	-	-	41.23	264,436.02	10,903,860.68	-	-	-	10,903,860.68	
	Sand Bedding	m <sup>3</sup>	-	10.76	-	-	10.76	143,115.00	1,539,459.43	-	-	-	1,539,459.43	
	Concrete Kerb	m <sup>3</sup>	-	7.33	-	-	7.33	550,000.00	4,029,300.00	-	-	-	4,029,300.00	
	Sodding	m <sup>2</sup>	-	826.99	-	-	826.99	19,500.00	16,126,305.00	-	-	-	16,126,305.00	
	Concrete Block	m <sup>2</sup>	-	177.96	-	-	177.96	132,763.55	23,626,601.36	-	-	-	23,626,601.36	
	Dewatering for Method for Geotextile Bag Work at River Closure	hour	-	-	600.00	-	600.00	170,602.00	-	102,361,200.00	-	-	102,361,200.00	method geobag
	Temporary Embankment for Coverdam with Compaction	m <sup>3</sup>	-	-	807.49	-	807.49	112,013.00	-	90,449,601.40	-	-	90,449,601.40	unbalance price
	Temporary Embankment for Coverdam without compaction	m <sup>3</sup>	-	-	1,499.63	-	1,499.63	111,046.71	-	166,528,755.62	-	-	166,528,755.62	upstream side cofferdam
	Removal Temporary Coverdam of Method for Geotextile Bag Work	m <sup>3</sup>	-	-	2,307.12	-	2,307.12	44,364.00	-	102,353,071.68	-	-	102,353,071.68	
	Steel Sheet Pile Type II for Counterweight Retaining Wall Pump	m'	0.00	432.00	-	-	432.00	851,440.87	367,822,455.84	-	-	-	367,822,455.84	
	House Downstream @24 m' in length													
	Additional for Concrete Slab of Retaining Wall Gate House East Side													
	Furnishing and Handling PC Pile D400 mm Type A3	m	-	-	864.00	-	864.00	567,822.70	-	490,598,812.80	-	-	490,598,812.80	New Item negotiated
	Driving PC Pile D400 mm Type A3	m	-	-	864.00	-	864.00	29,901.72	-	25,835,086.08	-	-	25,835,086.08	New Item negotiated
	Leveling Concrete K125, Including Formwork	m <sup>3</sup>	-	-	30.39	-	30.39	850,689.11	-	25,852,442.17	-	-	25,852,442.17	contract price item II.2.7.1
	Concrete K300, including Formwork	m <sup>3</sup>	-	-	202.48	-	202.48	1,366,910.48	-	276,772,032.98	-	-	276,772,032.98	contract price item II.2.8
	Deformed Reinforcing Bars	Kg	-	-	41,523.58	-	41,523.58	11,143.13	-	462,702,442.39	-	-	462,702,442.39	contract price item II.2.9
	<b>TOTAL FOR BILL NO. II</b>							<b>61,600,113,891.57</b>	<b>2,496,801,258.00</b>	<b>1,217,546,855.11</b>	<b>62,879,368,294.46</b>			
	<b>RETARDING POND</b>													
	<i>Preparatory Works</i>													
	Demolition of Existing Stone Masonry	L S	1.00	1.00	-	-	1.00	25,000,000.00	25,000,000.00	-	-	-	25,000,000.00	
	Coffering and Dewatering	L S	1.00	1.00	-	-	1.00	2,207,697,217.79	2,207,697,217.79	-	-	-	2,207,697,217.79	
	Excavation for Retarding Pond	m <sup>3</sup>	259,897.00	184,669.42	-	-	184,669.42	44,364.04	8,192,682,136.19	-	-	-	8,192,682,136.19	
	<i>Slope Protection Work</i>													
	Structural Excavation for Revetment	m <sup>3</sup>	6,239.00	0.00	-	-	0.00	67,873.54	-	-	-	-	-	
	Timber Pile, D = 150 mm L = 3 m	m	939.00	0.00	-	-	0.00	32,352.08	-	-	-	-	-	
	Leveling Concrete K125, including Formwork	m <sup>3</sup>	152.00	0.00	-	-	0.00	864,930.15	-	-	-	-	-	
	Concrete K300, including Formwork	m <sup>3</sup>	546.00	58.68	-	-	58.68	1,366,910.48	80,210,306.67	-	-	-	80,210,306.67	
	Deformed Reinforcing Bars	Kg	54,600.00	6,786.58	-	-	6,786.58	11,143.13	75,623,709.26	-	-	-	75,623,709.26	
	Sand Bedding	m <sup>3</sup>	580.00	0.00	-	-	0.00	143,115.00	-	-	-	-	-	
	Gabion Mattress	m <sup>3</sup>	468.00	0.00	-	-	0.00	546,700.00	-	-	-	-	-	
	Cobble Filling	m <sup>3</sup>	437.00	0.00	-	-	0.00	146,650.00	-	-	-	-	-	
	Concrete Block	m <sup>2</sup>	11,600.00	0.00	-	-	0.00	219,520.00	-	-	-	-	-	
	Geotextile	m <sup>2</sup>	11,600.00	0.00	-	-	0.00	31,878.00	-	-	-	-	-	
	Joint Filler, 10 mm thick (elastic material )	m <sup>2</sup>	580.00	0.00	-	-	0.00	225,000.00	-	-	-	-	-	
	Furnishing and placing woven geotextile, characteristic tensile	m <sup>2</sup>	-	9,598.20	-	-	9,598.20	86,255.40	827,896,580.28	-	-	-	827,896,580.28	
	Embankment	m <sup>3</sup>	44,874.00	46,663.42	-	-	46,663.42	155,898.23	7,274,744,350.43	-	-	-	7,274,744,350.43	
	Embankment )*	m <sup>3</sup>	-	16,326.46	4,000.00	-	20,326.46	112,197.05	1,831,780,445.98	448,788,208.00	-	-	2,280,568,653.98	Additional (volume estimasi simulasi elv.
	Furnishing and Driving Corrugated Concrete Sheet Pile type W 350	m	7,136.00	0.00	-	-	0.00	1,246,076.17	-	-	-	-	-	
	A 1000													
	Concrete Cap, K 300	m <sup>3</sup>	202.00	0.00	-	-	0.00	1,281,000.00	-	-	-	-	-	
	<i>Inspection Road Pavement</i>													
	Aggregate Class A	m <sup>3</sup>	562.00	772.52	-	-	772.52	266,798.52	206,107,193.83	-	-	-	206,107,193.83	
	Aggregate Class B	m <sup>3</sup>	749.00	1,114.43	-	-	1,114.43	264,436.02	294,695,435.44	-	-	-	294,695,435.44	
	Sand Bedding	m <sup>3</sup>	225.00	300.13	-	-	300.13	143,115.00	42,953,104.95	-	-	-	42,953,104.95	
	Concrete Block Pavement K 400, 200x100x100 mm	m <sup>3</sup>	3,744.00	1,652.22	-	-	1,652.22	146,020.00	241,257,164.40	-	-	-	241,257,164.40	
	Concrete Block Pavement K 400, 200x100x100 mm *)	m <sup>2</sup>	-	3,350.05	-	-	3,350.05	132,763.55	444,764,544.08	-	-	-	444,764,544.08	
	Concrete Kerb K 300	m <sup>3</sup>	71.00	3.64	96.41	-	100.05	550,000.00	2,002,315.97	53,025,184.03	-	-	55,027,500.00	Based on design
	Cement Mortar	m <sup>3</sup>	2.00	14.55	-	-	14.55	135,000.00	1,964,250.00	-	-	-	1,964,250.00	
	Wooden Pile, D = 70 mm L = 4 m, ctc = 0,5 m	m	-	6,692.00	-	-	6,692.00	17,250.36	115,439,409.12	-	-	-	1	

No	Description	Unit	Quantity					PT. ADHI KARYA (Persero) JOINT					Remark	
			Contract	Amendment 17	Additional	Deductional	Amendment 18	Unit Price (Rp)	Amendment - 17 Local Currency (Rp)	Additional	Deductional	Amendment - 18 Local Currency (Rp)		
1	Embankment	m <sup>3</sup>	18,997.00	20,946.47	-	-	20,946.47	155,898.23	3,265,517,493.02	-	-	3,265,517,493.02		
1.1	Embankment *)	m <sup>3</sup>	-	1,453.33	-	-	1,453.33	112,197.05	163,059,341.58	-	-	163,059,341.58		
2	Furnishing and Driving of PC Pile, D = 400 mm	m	3,560.00	0.00	-	-	0.00	569,069.13	-	-	-	-		
3	Furnishing and Driving Corrugated Concrete Sheet Pile type W 350	m	3,096.00	3,006.00	-	-	3,006.00	1,246,076.17	3,745,704,968.52	-	-	3,745,704,968.52		
4	Leveling Concrete K125, including Formwork	m <sup>3</sup>	224.00	18.80	-	-	18.80	864,930.15	16,262,785.57	-	-	16,262,785.57		
5	Concrete K300, including Formwork	m <sup>3</sup>	1,521.00	262.03	-	-	262.03	1,366,910.48	358,171,551.76	-	-	358,171,551.76		
6	Deformed Reinforcing Bars	Kg	152,100.00	19,196.07	-	-	19,196.07	11,143.13	213,904,207.52	-	-	213,904,207.52		
7	Water stop, w = 200 mm	m	78.00	0.00	-	-	0.00	200,000.00	-	-	-	-		
8	Dowel Bar D = 19 mm, L = 1 m and PVC Pipe	Kg	303.00	0.00	-	-	0.00	25,489.81	-	-	-	-		
9	Geotextile	m <sup>2</sup>	-	0.00	-	-	0.00	24,184.88	-	-	-	-		
10	Concrete Block	m <sup>2</sup>	-	0.00	-	-	0.00	219,520.00	-	-	-	-		
11	Sand Bedding	m <sup>3</sup>	-	0.00	-	-	0.00	143,115.00	-	-	-	-		
12	<b>Road Pavement Work</b>													
13	Aggregate Class A	m <sup>3</sup>	423.00	343.92	-	-	343.92	266,798.52	91,757,347.51	-	-	91,757,347.51		
14	Aggregate Class B	m <sup>3</sup>	565.00	495.27	-	-	495.27	264,436.02	130,967,228.37	-	-	130,967,228.37		
15	Sand Bedding	m <sup>3</sup>	164.00	137.57	-	-	137.57	143,115.00	19,688,330.55	-	-	19,688,330.55		
16	Concrete Kerb	m <sup>3</sup>	55.00	53.23	-	-	53.23	550,000.00	29,276,500.00	-	-	29,276,500.00		
17	Cement Mortar	m <sup>3</sup>	1.00	5.23	-	-	5.23	135,000.00	706,050.00	-	-	706,050.00		
18	Concrete Block Pavement K 400, 200x100x100 mm	m <sup>2</sup>	2,828.00	3,513.49	-	-	3,513.49	146,020.00	513,039,809.80	-	-	513,039,809.80		
19	Furnishing and Driving Corrugated Concrete Sheet Pile type W 500	m'	-	4,522.00	-	-	4,522.00	1,680,082.49	7,597,333,010.74	-	-	7,597,333,010.74		
20	A 1000	kg	-	0.00	-	-	0.00	18,545.63	-	-	-	-		
21	Furnishing and installing tie rod Ø 50 mm, bolt, plate, turn buckle	kg	-	0.00	-	-	0.00	17,495.63	-	-	-	-		
22	Furnishing and installing steel channel profile 240x85x9.5mm	kg	-	44,725.55	-	-	44,725.55	17,495.63	782,501,450.72	-	-	782,501,450.72		
23	Furnishing and installing steel channel profile 250x90x9mm	kg	-	6,586.43	-	-	6,586.43	54,423.60	358,457,231.75	-	-	358,457,231.75		
24	Furnishing and placing woven geotextile, characteristic tensile	m <sup>2</sup>	-	0.00	-	-	0.00	219,520.00	-	-	-	-		
25	Concrete Block	m <sup>2</sup>	-	0.00	-	-	0.00	1,281,000.00	215,028,660.00	-	-	215,028,660.00		
26	Concrete Cap, K 300	m <sup>3</sup>	-	167.86	-	-	167.86	24,184.88	-	-	-	-		
27	Geotextile	m <sup>2</sup>	-	0.00	-	-	0.00	146,650.00	-	-	-	-		
28	Cobble Filling	m <sup>3</sup>	-	45,488.15	-	-	45,488.15	18,545.63	843,606,171.84	-	-	843,606,171.84		
29	Furnishing and installing tie rod Ø 32 mm, bolt, plate, turn buckle	kg	-	3,492.00	-	-	3,492.00	398,000.00	1,389,816,000.00	-	-	1,389,816,000.00		
30	Furnishing and placing Geotextile Bag (3.40 x 1.00 x 0.50 m),	pcs	-	7,677.00	-	-	7,677.00	49,000.00	376,173,000.00	-	-	376,173,000.00		
31	Furnishing and placing HDPE Geomembrane (t = 0,75 mm)	m <sup>2</sup>	-	860.00	-	-	860.00	1,680,082.49	1,444,870,939.68	-	-	1,444,870,939.68		
32	Furnishing and Driving Corrugated Concrete Sheet Pile type W 500	m'	-	-	-	-	-	-	-	-	-	-		
33	<b>Stone Masonry at East Entrance</b>													
34	Structural Excavation	m <sup>3</sup>	0.00	827.36	-	-	827.36	71,612.32	59,249,169.08	-	-	59,249,169.08		
35	Wooden Pile, D70 mm L = 4 m	m'	0.00	348.00	-	-	348.00	17,250.36	6,003,125.28	-	-	6,003,125.28		
36	Stone Masonry 1:3	m <sup>3</sup>	0.00	225.09	-	-	225.09	603,062.25	135,743,281.85	-	-	135,743,281.85		
37	Weep Hole for Stone Masonry	Nos	0.00	88.00	-	-	88.00	33,792.15	2,973,709.20	-	-	2,973,709.20		
38	Dewatering for Stone Masonry	Ls	0.00	1.00	-	-	1.00	1,149,540.00	1,149,540.00	-	-	1,149,540.00		
39	Temporary Cofferdam and removal	m <sup>3</sup>	0.00	76.78	-	-	76.78	120,176.42	9,227,145.53	-	-	9,227,145.53		
40	Pestering, 1 PC : 3 Psr Up to Elv. +3,50 m	m <sup>2</sup>	0.00	0.00	170.00	-	170.00	38,439.00	-	6,534,630.00	-	-	6,534,630.00	
	<b>TOTAL FOR BILL NO. IX</b>													
	<b>BUILDINGS</b>													
	<b>Buildings</b>													
41	Embankment of Building Area	m <sup>3</sup>	6,288.00	7,353.86	-	-	7,353.86	155,898.23	1,146,453,720.90	-	-	1,146,453,720.90		
42	Embankment of Building Area *)	m <sup>3</sup>	-	16,889.55	-	-	16,889.55	112,197.05	1,894,957,683.62	-	-	1,894,957,683.62		
43	Furnishing and Driving of PC Pile D = 500 mm	m	1,710.00	3,450.00	-	-	3,450.00	729,642.27	2,517,265,831.50	-	-	2,517,265,831.50		
44	Furnishing and Driving of PC Pile D = 350 mm	m	538.00	0.00	-	-	0.00	452,202.19	-	-	-	-		
45	Furnishing and Driving of PC Pile D = 300 mm	m	150.00	0.00	-	-	0.00	387,904.04	-	-	-	-		
46	Furnishing and Driving of PC Pile D = 450 mm	m	200.00	0.00	-	-	0.00	649,320.83	-	-	-	-		
47	Power and Control House	Ls	1.00	1.00	-	-	1.00	3,940,309,408.71	-	-	-	-		
48	Additional of Concrete Works Including Reinforcing Bar and Formwork for Power and Control House (Design Changed)	Ls	-	1.00	-	-	1.00	530,021,228.61	-	-	-	-		
49	Acrylic Cover Louver	m <sup>2</sup>	-	62.59	-	-	62.59	1,704,466.00	-	106,682,526.94	-	106,682,526.94	New Item negotiated	
50	Management Office	Ls	1.00	1.00	-	-	1.00	813,330,864.91	-	-	-	813,330,864.91	omitted	
51	Garage	Ls	1.00	1.00	-	-	1.00	713,660,207.87	-	713,660,207.87	-	-		
52	Staff House	Ls	1.00	1.00	-	-	1.0							

No	Description	Unit	QUANTITY					PT. ADHI KARYA (Persero) JOINT						Remark
			Contract	Amendment 17	Additional	Deductional	Amendment 18	Unit Price (Rp)	Amendment - 17 Local Currency (Rp)	Additional	Deductional	Amendment - 18 Local Currency (Rp)		
26.5	Backfill with Selected Soil	m <sup>3</sup>			56.00	-	56.00	95,770.01	-	5,363,120.36	-	5,363,120.36	New Item negotiated	
26.6	Bar Screen	Kg			30.70	-	30.70	11,143.13	-	342,093.94	-	342,093.94	New Item negotiated	
26.7	Steel Angle 50x50x5	Kg			21.72	-	21.72	29,137.00	-	632,855.64	-	632,855.64	New Item negotiated	
26.8	PVC Pipe D=10 cm (4")	m <sup>3</sup>			24.00	-	24.00	102,585.00	-	2,462,040.00	-	2,462,040.00	New Item negotiated	
26.9	PVC Pipe D=2 cm (3/4")	m <sup>3</sup>			66.00	-	66.00	21,910.00	-	1,446,060.00	-	1,446,060.00	New Item negotiated	
26.10	Pipa PVC Clamp	Unit			12.00	-	12.00	27,615.00	-	331,380.00	-	331,380.00	New Item negotiated	
26.11	Elbow PVC 4"	unit			10.00	-	10.00	28,665.00	-	286,650.00	-	286,650.00	New Item negotiated	
26.12	Elbow PVC 3/4"	unit			20.00	-	20.00	12,915.00	-	258,300.00	-	258,300.00	New Item negotiated	
26.13	Tee PVC 3/4"	unit			40.00	-	40.00	12,915.00	-	516,600.00	-	516,600.00	New Item negotiated	
26.14	Hitachi Vortex Blower Capacity 1.75m <sup>3</sup> /Min	unit			2.00	-	2.00	24,394,860.00	-	48,789,720.00	-	48,789,720.00	New Item negotiated	
26.15	Yakult Container	pcs		4,900.00	-	4,900.00	2,030.00	-	9,947,000.00	-	9,947,000.00	New Item negotiated		
26.16	PVC Septictank Regulator	unit			1.00	-	1.00	543,506.00	-	543,506.00	-	543,506.00	New Item negotiated	
26.17	Automatic switcher including box panel and MCB	unit			1.00	-	1.00	7,036,050.00	-	7,036,050.00	-	7,036,050.00	New Item negotiated	
26.18	Stainless Steel	Kg		115.18	-	115.18	140,559.05	-	16,189,590.80	-	16,189,590.80	Contract Price item II.2.25.1		
26.19	Water tap stopping , ø 3/4"	unit		12.00	-	12.00	300,956.00	-	3,611,472.00	-	3,611,472.00	New Item negotiated		
	Cable Feeder NYY 4 X 16 mm <sup>2</sup> for building Area	m <sup>3</sup>		685.00	-	685.00	255,675.00	-	175,137,375.00	-	175,137,375.00	AC 5 PK required		
	Air Conditioning 5 PK Floor Standing (supplay & install)	Unit			2.00	-	2.00	32,251,275.00	-	64,502,550.00	-	64,502,550.00	to fulfill the temperature in the pump panel	
28.1	Cable NYM 3 x 2,5 mm <sup>2</sup>	mtr		45.00	-	45.00	37,044.00	-	1,666,980.00	-	1,666,980.00	New Item negotiated		
28.2	MCB 16 A	pcs		2.00	-	2.00	231,000.00	-	462,000.00	-	462,000.00	New Item negotiated		
28.3	Clamp For cable	pack		3.00	-	3.00	21,000.00	-	63,000.00	-	63,000.00	New Item negotiated		
28.4	Pipe 5/8 Inch	mtr		4.00	-	4.00	210,000.00	-	840,000.00	-	840,000.00	New Item negotiated		
28.5	Pipe 3/8 Inch	mtr		4.00	-	4.00	210,000.00	-	840,000.00	-	840,000.00	New Item negotiated		
28.6	Clamp Pipe	Pcs		10.00	-	10.00	21,000.00	-	210,000.00	-	210,000.00	New Item negotiated		
28.7	Breket For Outdoor unit	pcs		2.00	-	2.00	70,000.00	-	140,000.00	-	140,000.00	New Item negotiated		
28.8	Cost Wage Fixing Installation	unit		2.00	-	2.00	1,400,000.00	-	2,800,000.00	-	2,800,000.00	New Item negotiated		
28.9	Exhaust Pipe Water	Pcs		4.00	-	4.00	21,000.00	-	84,000.00	-	84,000.00	New Item negotiated		
	Displacement of Box Panel Lamp Instrumen at Pump House Building												adjustment of the cable installation	
9.1	Cable NYM 3 x 2,5 mm <sup>2</sup>	mtr		80.00	-	80.00	37,044.00	-	2,963,520.00	-	2,963,520.00	New Item negotiated		
9.2	Pipe Pvc "2" Inch	mtr		8.00	-	8.00	37,170.00	-	297,360.00	-	297,360.00	New Item negotiated		
9.3	Knee Pvc "2" Inch	pcs		6.00	-	6.00	21,000.00	-	126,000.00	-	126,000.00	New Item negotiated		
9.4	Duradus 20 mm"	pcs		1.00	-	1.00	11,200.00	-	11,200.00	-	11,200.00	New Item negotiated		
9.5	Clamp Pipe	pcs		10.00	-	10.00	4,200.00	-	42,000.00	-	42,000.00	New Item negotiated		
9.6	Aids Material	ls		1.00	-	1.00	70,000.00	-	70,000.00	-	70,000.00	New Item negotiated		
9.7	Cost Removal & Install	ls		1.00	-	1.00	280,000.00	-	280,000.00	-	280,000.00	New Item negotiated		
	Road Pavement Work													
	Aggregate Class A	m <sup>3</sup>	239.00	282.57	-	282.57	266,798.52	75,389,258.22	-	-	-	75,389,258.22		
	Aggregate Class B	m <sup>3</sup>	319.00	384.09	-	384.09	264,436.02	101,567,231.50	-	-	-	101,567,231.50		
	Sand Bedding	m <sup>3</sup>	96.00	113.03	-	113.03	143,115.00	16,176,288.45	-	-	-	16,176,288.45		
	Concrete Kerb	m <sup>3</sup>	26.00	21.07	-	21.07	550,000.00	11,588,500.00	-	-	-	11,588,500.00		
	Cement Mortar	m <sup>3</sup>	1.00	9.28	-	9.28	135,000.00	1,252,800.00	-	-	-	1,252,800.00		
	Concrete Block Pavement K 400, 200x100x100 mm	m <sup>2</sup>	1,597.00	2,883.78	-	2,883.78	146,020.00	421,089,455.14	-	-	-	421,089,455.14		
	<b>TOTAL FOR BILL NO. IV</b>	\$						<b>16,919,603,004.58</b>	<b>608,702,492.98</b>	<b>815,688,895.61</b>	<b>16,712,616,601.96</b>			
	<b>TRASHRACK (U/S), (CIVIL WORKS)</b>													
	Temporary Cofferdam and Dewatering	L S	1.00	1.00	-	1.00	3,342,701,250.00	3,342,701,250.00	-	-	-	3,342,701,250.00		
	Structural Excavation for Trash Rack	m <sup>3</sup>	2,494.00	7,180.76	-	7,180.76	67,873.54	487,383,626.22	-	-	-	487,383,626.22		
	Furnishing and Driving of PC Pile D = 500 mm	m	3,434.00	0.00	-	0.00	729,642.27	-	-	-	-	-		
	Furnishing of PC Pile D = 500 mm	m	3,434.00	3,150.00	-	3,150.00	697,733.19	2,197,859,548.50	-	-	-	2,197,859,548.50		
	Driving of PC Pile D = 500 mm	m	3,434.00	3,142.27	-	3,142.27	31,909.08	100,266,944.81	-	-	-	100,266,944.81		
	Furnishing and Driving of Steel Sheet Pile Type II	m	777.00	750.00	-	750.00	763,489.95	572,617,465.88	-	-	-	572,617,465.88		
	Leveling Concrete K125, including Formwork	m <sup>3</sup>	52.00	197.76	-	197.76	864,930.15	171,052,054.40	-	-	-	171,052,054.40		
	Concrete K300 Including Scaffolding and Formwork	m <sup>3</sup>	1,114.00	2,081.99	-	2,081.99	1,366,910.48	2,845,889,396.13	-	-	-	2,845,889,396.13		
	Deformed Reinforcing Bars	Kg	111,400.00	273,131.62	-	273,131.62	11,143.13	3,043,539,774.31	-	-	-	3,043,539,774.31		
	Backfill with Selected Soil	m <sup>3</sup>	216.00	1,979.19	-	1,979.19	95,770.01	189,547,039.16	-	-	-	189,547,039.16		
	Asphalt Concrete, t = 50 mm	ton	23.00	16.63	-	16.63	900,000.00	14,967,000.00	-	-	-	14,967,000.00		
	Hand Rail, D = 3", Galvanised Steel Pipe	Kg	440.00	3,051.23	-	3,051.23	22,325.63	68,120,616.						

No	Description	Unit	QUANTITY					PT. ADHI KARYA (Persero) JOINT			Amendment - 17 Local Currency (Rp)			Amendment - 18 Local Currency (Rp)			Remark
			Contract	Amendment 17	Additional	Deductional	Amendment 18	Unit Price (Rp)	Amendment - 17 Local Currency (Rp)	Additional	Amendment - 17 Local Currency (Rp)	Additional	Deductional	Amendment - 18 Local Currency (Rp)	Amendment - 18 Local Currency (Rp)		
	Outdoor Lighting	L S	1.00	1.00	-	-	1.00	90,000,000.00	90,000,000.00	-	-	-	-	90,000,000.00	90,000,000.00		
	Tree Palnting	No.	130.00	130.00	-	-	130.00	900,000.00	117,000,000.00	-	-	-	-	117,000,000.00	117,000,000.00		
	Furnishing & Driv. Corrug Concre Sheet Pile Waterflow Guidance	m	2,600.00	0.00	-	-	0.00	1,246,076.17	-	-	-	-	-	-	-	-	
	Barbed Wire Fence of Retarding Pond	m	13,014.00	0.00	-	-	0.00	7,051.21	-	-	-	-	-	-	-	-	omitted
	Concrete Pillar Fence, K300 of Retarding Pond	m <sup>3</sup>	61.00	61.56	-	61.56	0.00	1,281,000.00	78,858,360.00	-	-	-	-	-	-	-	omitted
	Deformed Reinforcing Bars	kg	-	7,608.00	-	7,608.00	0.00	11,143.13	84,776,895.00	-	-	-	-	84,776,895.00	84,776,895.00	-	omitted
	Boring end Standard Penetration Test	point	-	32.00	-	-	32.00	12,253,500.00	392,112,000.00	-	-	-	-	-	-	392,112,000.00	
	Dutch Cone Penetrometer Test ( Depth = 20 m' )	point	-	30.00	-	-	30.00	1,293,075.00	38,792,250.00	-	-	-	-	-	-	38,792,250.00	
	Topographical Survey Equipment and Accessories	Set	-	1.00	-	-	1.00	108,070,000.00	108,070,000.00	-	-	-	-	-	-	108,070,000.00	
	Elevation Survey From National Bench Mark (TTG 49)	ls	-	1.00	-	-	1.00	14,230,000.00	14,230,000.00	-	-	-	-	-	-	14,230,000.00	
	Temporary Drainage Pipe on Main Entrance of Pumping Station and Retarding Pond	Unit	-	18.00	-	-	18.00	3,489,649.00	62,813,682.00	-	-	-	-	-	-	62,813,682.00	
	RCP 800 x 2440mm,type RJ, Class - 3 AS (Main Entrance)	m <sup>3</sup>	-	8.99	-	-	8.99	143,115.00	1,286,603.85	-	-	-	-	-	-	1,286,603.85	
	Weep Hole	Nos	-	-	151.00	-	151.00	33,792.15	-	-	-	5,102,614.65	-	-	-	5,102,614.65	
	Weep Hole for Retaining Wall Part A	Nos	-	-	18.00	-	18.00	33,792.15	-	-	-	608,258.70	-	-	-	608,258.70	New Item negotiated
	Weep Hole for Retaining Wall Downstream	Nos	-	-	43.00	-	43.00	33,792.15	-	-	-	1,453,062.45	-	-	-	1,453,062.45	New Item negotiated
	Weep Hole for Retaining Wall Gate House West Side	Nos	-	-	33.00	-	33.00	33,792.15	-	-	-	1,115,140.95	-	-	-	1,115,140.95	New Item negotiated
	Weep Hole for Retaining Wall Gate House East Side	Nos	-	-	121.00	-	121.00	33,792.15	-	-	-	4,088,850.15	-	-	-	4,088,850.15	New Item negotiated
	Weep Hole for Retaining Wall Part B	Nos	-	-	24.00	-	24.00	33,792.15	-	-	-	811,011.60	-	-	-	811,011.60	New Item negotiated
	Weep Hole for Retaining Wall Trashrack D/S West Side	Nos	-	-	30.00	-	30.00	33,792.15	-	-	-	1,013,764.50	-	-	-	1,013,764.50	New Item negotiated
	Weep Hole for Retaining Wall Trashrack D/S East Side	Nos	-	-	12.00	-	12.00	33,792.15	-	-	-	405,505.80	-	-	-	405,505.80	New Item negotiated
	Weep Hole for Retaining Wall Trashrack U/S West Side	Nos	-	-	22.00	-	22.00	33,792.15	-	-	-	743,427.30	-	-	-	743,427.30	New Item negotiated
	<b>TOTAL FOR BILL NO. VI</b>								<b>1,423,222,719.60</b>		<b>314,490,353.75</b>		<b>163,635,255.00</b>		<b>1,574,077,818.35</b>		
	<b>BARU RIVER WORKS</b>																
	<i>Baru River Works</i>																
	Furnishing and Driving Corrugated Concrete Sheet Pile t = 120	m	592.00	592.00	-	-	592.00	1,246,076.17	737,677,092.94	-	-	-	-	-	-	737,677,092.94	
	Embankment	m <sup>3</sup>	268.00	0.00	-	-	0.00	155,898.23	-	-	-	-	-	-	-	-	
	Embankment *)	m <sup>3</sup>	-	1,348.27	-	943.79	404.48	112,197.05	151,271,919.30	-	-	-	105,890,343.51	-	-	45,381,575.79	
	Embankment without compaction	m <sup>3</sup>	-	-	943.79	-	943.79	109,126.95	-	-	-	102,992,815.01	-	-	-	102,992,815.01	New Item negotiated
	Concrete Cap, K 300	m <sup>3</sup>	19.00	19.00	-	-	19.00	1,281,000.00	24,339,000.00	-	-	-	-	-	-	24,339,000.00	
	Deformed Reinforcing Bars	kg	-	1,900.00	-	-	1,900.00	11,143.13	21,171,937.50	-	-	-	-	-	-	21,171,937.50	
	Furnishing and Installing Steel Channel Profile 250 x 90 x 9 mm	Kg	-	4,470.13	-	-	4,470.13	17,495.63	78,207,683.20	-	-	-	-	-	-	78,207,683.20	
	Furnishing and Installing Tie Rod Ø 32mm, Bolt, Plate, Turn buckle	Kg	-	3,359.10	-	-	3,359.10	18,545.63	62,296,534.76	-	-	-	-	-	-	62,296,534.76	
	Furnishing and Placing Woven Geotextile, Characteristic Tensile S	m <sup>2</sup>	-	522.55	-	-	522.55	86,255.40	45,072,933.07	-	-	-	-	-	-	45,072,933.07	
	Structural Excavation	m <sup>3</sup>	-	-	115.40	-	115.40	67,873.54	-	-	-	7,832,606.92	-	-	-	7,832,606.92	
	Stone Masonry 1:3	m <sup>3</sup>	-	-	57.70	-	57.70	603,062.25	-	-	-	34,796,691.83	-	-	-	34,796,691.83	
	Furnishing and Installing RCP 800 x 2440mm,type RJ, Class - 3 AS	Unit	-	-	6.00	-	6.00	3,489,649.00	-	-	-	20,937,894.00	-	-	-	20,937,894.00	
	Sand Bedding	m <sup>3</sup>	-	-	1.44	-	1.44	143,115.00	-	-	-	206,085.60	-	-	-	206,085.60	Contract Price item IV.2.3
	Sodding	m <sup>2</sup>	-	-	392.03	-	392.03	19,500.00	-	-	-	7,644,537.01	-	-	-	7,644,537.01	Contract Price item VI.1
	Hand Rail, D = 50 mm, Galvanized Steel Pipe	kg	-	959.53	-	-	959.53	22,325.63	-	-	-	21,422,106.96	-	-	-	21,422,106.96	Contract Price item V.10
	<b>TOTAL FOR BILL NO. VII</b>								<b>1,120,037,100.76</b>		<b>195,832,737.33</b>		<b>105,890,343.51</b>		<b>1,209,979,494.58</b>		
	<b>SUPPLYING MAINTENANCE EQUIPMENTS</b>																
	<i>Supplying Maintenance Equipments</i>																
	Supply of Backhoes	No.	1.00	0.00	-	-	-	1,182,500,000.00	-	-	-	-	-	-	-	-	
	Supply of Garbage Truck	No.	3.00	3.00	-	-	3.00	233,970,000.00	701,910,000.00	-	-	-	-	-	-	701,910,000.00	
	Supply of Truck Crane	No.	1.00	1.00	-	-	1.00	506,000,000.00	506,000,000.00	-	-	-	-	-	-	506,000,000.00	
	Supply of Garbage Containers	No.	6.00	6.00	-	-	6.00	40,000,000.00	240,000,000.00	-	-	-	-	-	-	240,000,000.00	
	Supply of Forklifts	No.	1.00	1.00	-	-	1.00	247,500,000.00	247,500,000.00	-	-	-	-	-	-	247,500,000.00	
	Supply of Wheel Loader	No.	1.00	0.00	-	-	-										

Line No	Description	Unit	Quantity					PT. ADHI KARYA (Persero) JOINT						Remark
			Contract	Amendment 17	Additional	Deductional	Amendment 18	Unit Price (Rp)	Amendment - 17 Local Currency (Rp)	Additional	Deductional	Amendment - 18 Local Currency (Rp)		
	Selected Soil	m³	250.00	250.00	-	-	250.00	68,640.00	17,160,000.00	-	-	-	17,160,000.00	
	<b>TOTAL FOR DAYWORK</b>								<b>798,436,000.00</b>	<b>0.00</b>	<b>0.00</b>	<b>798,436,000.00</b>		
	<b>BORING AND GROUTING WORKS</b>													
1	Retaining Wall Part A (West Side of Building Area)	m'												
1.1	Boring	m'	2,305.00				2,305.00	206,884.00	476,867,620.00	-	-	-	476,867,620.00	
1.2	Grouting	m'	1,760.00				1,760.00	172,840.00	304,198,400.00	-	-	-	304,198,400.00	
1.3	Cement	kg	140,800.00				140,800.00	1,232.00	173,465,600.00	-	-	-	173,465,600.00	
1.4	Sand	kg	140,800.00				140,800.00	281.00	39,564,800.00	-	-	-	39,564,800.00	
1.5	Dutch Cone Test up to elevation EL. - 21.00 m before grouting	point	5.00				5.00	1,293,000.00	6,465,000.00	-	-	-	6,465,000.00	
1.6	Dutch Cone Test up to elevation EL. - 21.00 m after grouting	point	5.00				5.00	1,293,000.00	6,465,000.00	-	-	-	6,465,000.00	
1.7	Retaining Wall Downstream Part (North Side of Pumping House)	m'												
1.8	Boring	m'	2,246.00				2,246.00	206,884.00	464,661,464.00	-	-	-	464,661,464.00	
1.9	Grouting	m'	1,790.00				1,790.00	172,840.00	309,383,600.00	-	-	-	309,383,600.00	
1.10	Cement	kg	143,200.00				143,200.00	1,232.00	176,422,400.00	-	-	-	176,422,400.00	
1.11	Sand	kg	143,200.00				143,200.00	281.00	40,239,200.00	-	-	-	40,239,200.00	
1.12	Dutch Cone Test up to elevation EL. - 24.00 m before grouting	point	5.00				5.00	1,293,000.00	6,465,000.00	-	-	-	6,465,000.00	
1.13	Dutch Cone Test up to elevation EL. - 24.00 m after grouting	point	9.00				9.00	1,293,000.00	11,637,000.00	-	-	-	11,637,000.00	
1.14	Emergency Retaining Wall Part B (East Side of Gate House)	m'												
1.15	Boring	m'	2,479.00				2,479.00	206,884.00	512,865,436.00	-	-	-	512,865,436.00	
1.16	Grouting	m'	2,142.00				2,142.00	172,840.00	370,223,280.00	-	-	-	370,223,280.00	
1.17	Cement	kg	171,360.00				171,360.00	1,232.00	211,115,520.00	-	-	-	211,115,520.00	
1.18	Sand	kg	171,360.00				171,360.00	281.00	48,152,160.00	-	-	-	48,152,160.00	
1.19	Dutch Cone Test up to elevation EL. - 21.00 m before grouting	point	10.00				10.00	1,293,000.00	12,930,000.00	-	-	-	12,930,000.00	
1.20	Dutch Cone Test up to elevation EL. - 21.00 m after grouting	point	10.00				10.00	1,293,000.00	12,930,000.00	-	-	-	12,930,000.00	
1.21	Retaining Wall of Upstream Trashrack	m'												
1.22	Boring	m'	1,039.00				1,039.00	206,884.00	214,952,476.00	-	-	-	214,952,476.00	
1.23	Grouting	m'	893.00				893.00	172,840.00	154,346,120.00	-	-	-	154,346,120.00	
1.24	Cement	kg	71,440.00				71,440.00	1,232.00	88,014,080.00	-	-	-	88,014,080.00	
1.25	Sand	kg	71,440.00				71,440.00	281.00	20,074,640.00	-	-	-	20,074,640.00	
1.26	Dutch Cone Test up to elevation EL. - 21.00 m before grouting	point	4.00				4.00	1,293,000.00	5,172,000.00	-	-	-	5,172,000.00	
1.27	Dutch Cone Test up to elevation EL. - 21.00 m after grouting	point	4.00				4.00	1,293,000.00	5,172,000.00	-	-	-	5,172,000.00	
1.28	Fuel Tank Foundation of Power and Control House	m'												
1.29	Boring	m'	355.91				355.91	206,884.00	73,632,291.32	-	-	-	73,632,291.32	
1.30	Grouting	m'	330.00				330.00	172,840.00	57,037,200.00	-	-	-	57,037,200.00	
1.31	Cement	kg	26,400.00				26,400.00	1,232.00	32,524,800.00	-	-	-	32,524,800.00	
1.32	Sand	kg	26,400.00				26,400.00	281.00	7,418,400.00	-	-	-	7,418,400.00	
1.33	Guard House	m'												
1.34	Boring	m'	199.96				199.96	206,884.00	41,368,731.52	-	-	-	41,368,731.52	
1.35	Grouting	m'	189.00				189.00	172,840.00	32,666,760.00	-	-	-	32,666,760.00	
1.36	Cement	kg	15,120.00				15,120.00	1,232.00	18,627,840.00	-	-	-	18,627,840.00	
1.37	Sand	kg	15,120.00				15,120.00	281.00	4,248,720.00	-	-	-	4,248,720.00	
1.38	Storage Building Area	m'												
1.39	Boring	m'	1,878.97				1,878.97	206,884.00	388,729,657.02	-	-	-	388,729,657.02	
1.40	Grouting	m'	1,853.73				1,853.73	172,840.00	320,398,001.84	-	-	-	320,398,001.84	
1.41	Cement	kg	148,298.08				148,298.08	1,232.00	182,703,234.56	-	-	-	182,703,234.56	
1.42	Sand	kg	148,298.08				148,298.08	281.00	41,671,760.48	-	-	-	41,671,760.48	
1.43	Dutch Cone Test up to elevation EL. - 21.00 m before grouting	point	3.00				3.00	1,293,000.00	3,879,000.00	-	-	-	3,879,000.00	
1.44	Dutch Cone Test up to elevation EL. - 21.00 m after grouting	point	3.00				3.00	1,293,000.00	3,879,000.00	-	-	-	3,879,000.00	
1.45	<b>TOTAL FOR BILL NO. X</b>								<b>4,880,568,192.74</b>	<b>0.00</b>	<b>0.00</b>	<b>4,880,568,192.74</b>		
	<b>Fence for Pumping Station and Retarding Pond</b>													
	Precast Panel Fence													
	Structural Excavation of fence foundation	m³												
	Backfill	m³	1,383.00		-	-	1,383.00	39,679.09	54,876,181.47	-	-	-	54,876,181.47	
	Wooden Pile	m'	1,209.00		-	-	1,209.00	41,663.36	50,371,002.24	-	-	-	50,371,002.24	
	Sand Bedding	m'	3,240.00		-	-	3,240.00	17,250.00	55,890,000.00	-	-	-	55,890,000.00	
	Precast Culvert Ø 600mm, L=1m	m³	12.96		-	-	12.96	143,115.00	1,854,770.40	-	-	-	1,854,770.40	
	Concrete K-125 (Site Mix)	unit	405.00		-	-	405.00	149,215.00	60,432,075.00	-	-	-	60,432,075.00	</td

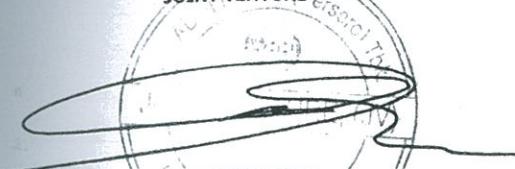
No	Description	Unit	Quantity					PT. ADHI KARYA (Persero) JOINT					Remark
			Contract	Amendment 17	Additional	Deductional	Amendment 18	Unit Price (Rp)	Amendment - 17 Local Currency (Rp)	Additional	Deductional	Amendment - 18 Local Currency (Rp)	
XIII.7.3	Hollow Concrete 15 x 35 cm	nos	-	-	71.00	-	71.00	49,087.00	-	3,485,177.00	-	3,485,177.00	New Item negotiated
XIII.7.4	Ceramic of floor, 30 x 30 cm	m2	-	-	40.63	-	40.63	267,970.00	-	10,887,085.16	-	10,887,085.16	New Item negotiated
XIII.7.5	Ceramic of toilet floor, 25 x 25 cm	m2	-	-	1.96	-	1.96	223,111.00	-	436,739.78	-	436,739.78	New Item negotiated
XIII.7.6	Ceramic of toilet wall, 25 x 25 cm	m2	-	-	7.20	-	7.20	224,400.00	-	1,615,343.40	-	1,615,343.40	New Item negotiated
XIII.7.7	Natural Stone	m2	-	-	50.50	-	50.50	231,131.00	-	11,672,115.50	-	11,672,115.50	New Item negotiated
XIII.7.8	Concrete Block Pavement K 400, 200x100x100 mm	m2	-	-	27.03	-	27.03	146,020.00	-	3,946,920.60	-	3,946,920.60	New Item negotiated
XIII.7.9	Sand Bedding	m3	-	-	-	-	-	143,115.00	-	-	-	-	
<b>8</b> <b>Plestering Works</b>													
XIII.	Plestering, 1 PC : 3 Psr Up to Elv. +3.50 m	m2	-	-	419.93	-	419.93	38,439.00	-	16,141,689.27	-	16,141,689.27	New Item negotiated
XIII.	Plestering, 1 PC : 3 Psr Elv. 3.50 m Up to Elv. +10.75 m	m2	-	-	779.87	-	779.87	61,644.00	-	48,074,306.28	-	48,074,306.28	New Item negotiated
XIII.	Plastering of toilet wall, 1 cement : 2 sand	m2	-	-	4.20	-	4.20	45,073.00	-	189,306.60	-	189,306.60	New Item negotiated
XIII.	Finishing of Plastering Up to Elv. +3,50 m	m2	-	-	424.13	-	424.13	23,126.00	-	9,808,430.38	-	9,808,430.38	New Item negotiated
XIII.	Finishing of Plastering Elv. +3,50 m up to Elv. +10,75 m	m2	-	-	779.87	-	779.87	38,246.00	-	29,826,908.02	-	29,826,908.02	New Item negotiated
XIII.	Skoning 1 : 2 (Plestering of Corner)	m'	-	-	530.76	-	530.76	30,125.00	-	15,989,145.00	-	15,989,145.00	New Item negotiated
<b>9</b> <b>Truss and Roof Works</b>													
XIII.	Truss of light metal	m2	-	-	326.76	-	326.76	241,403.00	-	78,879,709.69	-	78,879,709.69	New Item negotiated
XIII.	Zinculum roof	m2	-	-	326.76	-	326.76	296,520.00	-	96,889,481.56	-	96,889,481.56	New Item negotiated
XIII.	Plain edge ridge capping	m'	-	-	26.00	-	26.00	210,335.00	-	5,468,710.00	-	5,468,710.00	New Item negotiated
XIII.	Fascia of wood plank	m	-	-	77.48	-	77.48	141,015.00	-	10,925,842.20	-	10,925,842.20	New Item negotiated
<b>10</b> <b>Ceiling Works</b>													
X.	Ceiling of calsi board and frame	m2	-	-	305.84	-	305.84	145,069.00	-	44,367,380.71	-	44,367,380.71	New Item negotiated
X.	Cornice of calsi board ceiling	m	-	-	170.95	-	170.95	17,430.00	-	2,979,658.50	-	2,979,658.50	New Item negotiated
<b>11</b> <b>Door Frame and Window Works</b>													
II.I.11.	Aluminium frame	m	-	-	32.46	-	32.46	143,999.00	-	4,674,207.54	-	4,674,207.54	New Item negotiated
II.I.11.	Window type AW3 incl. accessories for storage	unit	-	-	1.00	-	1.00	4,107,120.00	-	4,107,120.00	-	4,107,120.00	New Item negotiated
II.I.11.	Door type AD1 incl. accessories for storage	unit	-	-	1.00	-	1.00	6,440,551.00	-	6,440,551.00	-	6,440,551.00	New Item negotiated
II.I.11.	Door type AD3 incl. accessories for storage	unit	-	-	2.00	-	2.00	3,480,542.00	-	6,961,084.00	-	6,961,084.00	New Item negotiated
II.I.11.	HPL door type AD4 incl. accessories for storage	unit	-	-	1.00	-	1.00	2,347,800.00	-	2,347,800.00	-	2,347,800.00	New Item negotiated
II.I.11.	Window type AW4 incl. accessories for storage	unit	-	-	1.00	-	1.00	492,972.00	-	492,972.00	-	492,972.00	New Item negotiated
II.I.11.	Window type AW5 incl. accessories for storage	unit	-	-	3.00	-	3.00	1,436,178.00	-	4,308,534.00	-	4,308,534.00	New Item negotiated
II.I.11.	Mechanic Rolling Door L=3.70 m, H=5.00 m	unit	-	-	2.00	-	2.00	48,520,500.00	-	97,041,000.00	-	97,041,000.00	New Item negotiated
<b>12</b> <b>Plumbing Works</b>													
I.I.12.	Pipe for water supply , ø 1/2" PVC	M	-	-	2.00	-	2.00	17,648.00	-	35,296.00	-	35,296.00	New Item negotiated
I.I.12.	Pipe for water supply , ø 3/4" PVC	M	-	-	20.00	-	20.00	21,910.00	-	438,200.00	-	438,200.00	New Item negotiated
I.I.12.	Pipe for water supply , ø 2" PVC	M	-	-	6.00	-	6.00	223,020.00	-	223,020.00	-	223,020.00	New Item negotiated
I.I.12.	Pipe for sewage , ø 4" PVC	M	-	-	6.00	-	6.00	102,585.00	-	615,510.00	-	615,510.00	New Item negotiated
I.I.12.	Water closet (WC)	Unit	-	-	1.00	-	1.00	2,891,805.00	-	2,891,805.00	-	2,891,805.00	New Item negotiated
I.I.12.	Water container of fibre glass	Unit	-	-	1.00	-	1.00	490,050.00	-	400,050.00	-	400,050.00	New Item negotiated
I.I.12.	Soap ceramic box	Unit	-	-	1.00	-	1.00	66,806.00	-	66,806.00	-	66,806.00	New Item negotiated
I.I.12.	Water tap, ø 1/2"	Unit	-	-	3.00	-	3.00	181,335.00	-	544,005.00	-	544,005.00	New Item negotiated
I.I.12.	Wash basin set	Unit	-	-	1.00	-	1.00	759,255.00	-	759,255.00	-	759,255.00	New Item negotiated
I.I.12.	Water tap stopping , ø 3/4"	Unit	-	-	1.00	-	1.00	300,956.00	-	300,956.00	-	300,956.00	New Item negotiated
I.I.12.	Floor drain	Unit	-	-	1.00	-	1.00	220,675.00	-	220,675.00	-	220,675.00	New Item negotiated
<b>13</b> <b>Painting Works</b>													
XIII.	Exterior painting up to Elv. +3.50m	m2	-	-	113.73	-	113.73	32,697.00	-	3,718,631.44	-	3,718,631.44	New Item negotiated
XIII.	Exterior painting up to Elv. +3.50m up to Elv. +10,75 m	m2	-	-	211.21	-	211.21	41,520.00	-	8,769,561.68	-	8,769,561.68	New Item negotiated
XIII.	Interior painting up to Elv. +3.50m	m2	-	-	201.89	-	201.89	29,625.00	-	5,981,104.57	-	5,981,104.57	New Item negotiated
XIII.	Interior painting up to Elv. +3.50m UP TO Elv. +10,75 m	m2	-	-	374.95	-	374.95	34,630.00	-	12,984,368.73	-	12,984,368.73	New Item negotiated
XIII.	Gypsum ceiling painting Up to Elv. 3.50 m	m2	-	-	-	-	-	-	-	-	-	-	
XIII.	Cement fibre ceiling painting Elv. +3.50 m up to Elv. +10.75m	m2	-	-	303.87	-	303.87	20,401.00	-	6,199,251.87	-	6,199,251.87	New Item negotiated
XIII.	Fascia painting	m2	-	-	11.62	-	11.62	42,887.00	-	498,432.71	-	498,432.71	New Item negotiated
XIII.	Teakwood door painting	m2	-	-	11.06	-	11.06	17,067.00	-	188,761.02	-	188,761.02	New Item negotiated
<b>14</b> <b>Miscellaneous Works</b>													
II.	Drainage ditch dia. 20 cm	m											

No	Description	Unit	QUANTITY					PT. ADHI KARYA (Persero) JOINT					Remark
			Contract	Amendment 17	Additional	Deductional	Amendment 18	Unit Price (Rp)	Amendment - 17 Local Currency (Rp)	Additional	Deductional	Amendment - 18 Local Currency (Rp)	
	Ground Reservoir	m	-	-	114.00	-	114.00	184,735.00	-	21,059,790.00	-	21,059,790.00	water supply requirement and fire fighting
	Furnishing of Mini Pile 280 x 280 x 280 mm x 3m	m	-	-	114.00	-	114.00	20,430.00	-	2,329,020.00	-	2,329,020.00	New Item negotiated
	Driving of Mini Pile 280 x 280 x 280 mm x 3m	m	-	-	198.20	-	198.20	71,612.32	-	14,193,418.60	-	14,193,418.60	New Item negotiated
	Structural Excavation	m3	-	-	59.46	-	59.46	95,770.01	-	5,694,427.12	-	5,694,427.12	contract price item II.2.1.1
	Backfill with Selected Soil	m3	-	-	15.79	-	15.79	850,689.11	-	13,432,381.11	-	13,432,381.11	contract price item V.8
	Leveling Concrete K125, Including Formwork	m3	-	-	80.97	-	80.97	1,366,910.48	-	110,674,640.43	-	110,674,640.43	contract price item II.2.7.1
	Concrete K300 Including Scaffolding and Formwork	m3	-	-	24,072.52	-	24,072.52	11,143.13	-	268,243,099.43	-	268,243,099.43	contract price item II.2.8
	Deformed Reinforcing Bars	kg	-	-	100.00	-	100.00	274,965.00	-	27,496,500.00	-	27,496,500.00	contract price item II.2.9
	Sand Filling	m3	-	-	69.64	-	69.64	96,370.00	-	6,711,206.80	-	6,711,206.80	New Item negotiated
	Brick Masonry, 1 cement : 3 sand Up to Elv +3.50 m	m2	-	-	179.14	-	179.14	38,439.00	-	6,885,962.46	-	6,885,962.46	New Item negotiated
	Plastering, 1 PC : 3 Psr Up to Elv. +3.50 m	m2	-	-	33.00	-	33.00	28,087.00	-	926,871.00	-	926,871.00	New Item negotiated
	Hollow Concrete 15 x 30 cm	Nos	-	-	-	-	-	-	0.00	477,647,316.95	0.00	477,647,316.95	
	<b>TOTAL OF BILL AND DAY WORKS</b>								<b>160,439,872,416.00</b>	<b>5,869,848,386.00</b>	<b>2,313,357,624.00</b>	<b>163,996,363,178.00</b>	

For and On Behalf of :

ADHI KARYA (Persero) Tbk - PT. PEMBANGUNAN PERUMAHAN (Persero)

JOINT VENTURE



Ir. BEP Adji Satmoko, MM

In the capacity of Head of Construction IV Division  
PT. ADHI KARYA (Persero) Tbk

Semarang, March 19, 2014  
Prepared by : Contract Amendment's Committee  
Package C1 : Semarang Pumping Station and Retarding Pond  
(Civil and Architectural Works)

Nama	Occupation	Signature
1. Egi Yuniarto, ST.MT.	Chairperson	
2. M. Syukron Fikri, ST.MT.	Secretary	
3. Larap Kemayan Estu, ST.	Member	
4. Suradi, ST.	Member	
5. Subagyo, A.Md.	Member	



GENERAL CONTRACTOR

PT. ADHI-PP  
JOINT VENTURE, (JV)

Jl. Gayung Kebonsari No. 167A, Surabaya 60231 Tlp. 62-31 8287251, 8291671, Fax. 62-31 8290710  
Jl. Pemuda No. 82, Semarang 50133 Tlp. 62-24 3547455, 3547456, Fax. 62-24 3551911

No : 1915.1/AK-PP/JV/III/2014  
Enclosure : 1 set

Semarang, March 17<sup>th</sup>, 2014

To : Head of Satker PPLP Central Java  
  
Attn : Mr. Mitsuo Miura  
CC : Mr. Sugeng, ME  
Mr. Djoko Roosmany  
Mr. Mohamad Ali  
Archive

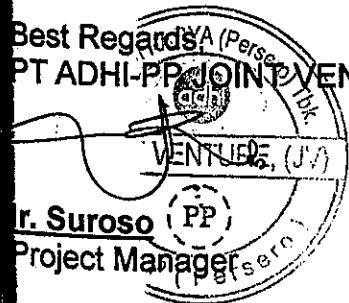
Subject : Submission Draft Amendment no.18

Dear Sir,

Referring to implementation of work on site, herewith we would like to submit draft Amendment no.18. The items which not calculated yet for the quantities and the additional cost will be included on the next amendment.

Dealing with the matter above, we look forward for your approval as soon as possible.  
Thank you for attention and good cooperation.

Best Regards,  
PT ADHI-PP JOINT VENTURE, (JV)



**SUMMARY BILL OF QUANTITIES - EVALUATION AND COMPARISON OF BIDS**  
**DRAFT DETAIL BILL OF QUANTITIES - EVALUATION AND COMPARISON OF BIDS BETWEEN AMENDMENT-17 AND AMENDMENT-18**  
**PT. ADHI KARYA (Persero) Tbk - PT. PEMBANGUNAN PERUMAHAN (Persero) JOINT VENTURE**

THE EMPLOYER : SATUAN KERJA PENGEMBANGAN PENYEHATAN LINGKUNGAN PERMUKIMAN JAWA TENGAH  
NAME OF PACKAGE : PACKAGE C 1  
ITEM OF WORKS : SEMARANG PUMPING STATION AND RETARDING POND (CIVIL AND ARCHITECTURAL WORKS)  
LOCATION : SEMARANG  
SOURCE OF FUND : JICA LOAN IP 534  
FISCAL YEAR : 2009/2010/2011/2012/2013/2014

WORK ITEM		SUMMARY BILL OF QUANTITIES - CORRECTED AMOUNT OF BIDS			
		PT. ADHI KARYA (Persero) Tbk - PT. PEMBANGUNAN PERUMAHAN (Persero) JOINT VENTURE			
		AMENDMENT-17 AMOUNT		AMENDMENT-18 AMOUNT	
Local Currency (Rp.)	Foreign Currency (No. FC)	Local Currency (Rp.)	Foreign Currency (No. FC)		
Bill No. I : General Items	1,216,328,000.00			1,216,328,000.00	
Bill No. II : Pumping Station and Gate	61,600,113,891.57			62,879,368,294.46	
Bill No. III : Retarding Pond	52,893,383,410.55			53,391,135,157.66	
Bill No. IV : Buildings	16,919,603,004.58			16,712,616,601.96	
Bill No. V : Trashrack (U/S), (Civil Works)	15,369,543,736.25			15,369,543,736.25	
Bill No. VI : Miscellaneous Works	1,423,222,719.60			1,574,077,818.35	
Bill No. VII : Baru River Works	1,120,037,100.76			1,209,979,494.58	
Bill No. VIII : Supplying Maintenance Equipments	1,998,910,000.00			1,998,910,000.00	
Bill No. X : BORING AND GROUTING WORKS	4,880,568,192.74			4,880,568,192.74	
Bill No. XI : FENCING WORKS	1,304,405,913.93			1,418,692,664.10	
Bill No. XII : FUEL TANK FOUNDATION	224,026,196.77			386,786,819.35	
Bill No. XIII : Storage Building Area	691,294,249.73			1,682,273,082.61	
Bill No. XIV : Ground Reservoir				477,647,316.95	
( 1 ) SUB TOTAL OF BILLS	159,641,436,416.00			163,197,927,178.00	
( 2 ) Provisional Sum for Daywork	798,436,000.00			798,436,000.00	
( 3 ) TOTAL OF BILLS AND DAYWORK	160,439,872,416.00			163,996,363,178.00	
( 4 ) Provisional Sum for Contingencies	6,059,818,874.00			2,503,328,112.00	
( 5 ) Provisional Sum for Escalation	10,000,000,000.00			10,000,000,000.00	
( 6 ) = ( 3 ) + ( 4 ) + ( 5 )	176,499,691,290.00			176,499,691,290.00	
( 7 ) = Amount of VAT ( 10 % of ( 6 ) )	17,649,969,129.00			17,649,969,129.00	
( 8 ) Total Amount Including VAT ((6) + (7)) (Carried forward to Form of Bid)	194,149,660,419.00			194,149,660,419.00	

Semarang, 17 of March, 2014

For and On Behalf of :

**PT. ADHI KARYA (Persero) Tbk - PT. PEMBANGUNAN  
JOINT VENTURE**



**Ir. BEP Adji Satmoko, MM**

In the capacity of Head of Construction IV Division  
PT. ADHI KARYA (Persero) Tbk

**DRAFT DETAIL BILL OF QUANTITIES - EVALUATION AND COMPARISON OF BIDS BETWEEN AMENDMENT-17 AND AMENDMENT-18 (REVISION-01)**  
**PT. ADHI KARYA (Persero) Tbk - PT. PEMBANGUNAN PERUMAHAN (Persero) JOINT VENTURE**

UP LOYER  
OF PACKAGE  
F WORKS  
ON  
E OF FUND  
YEAR

: SATUAN KERJA PENGEMBANGAN PENYEHATAN LINGKUNGAN PERMUKIMAN JAWA TENGAH  
: PACKAGE C 1  
: SEMARANG PUMPING STATION AND RETARDING POND (CIVIL AND ARCHITECTURAL WORKS)  
: SEMARANG  
: JICA LOAN IP 534  
: 2009/2010/2011/2012/2013/2014

No	Description	Unit	QUANTITY					PT. ADHI KARYA (Persero) JOINT	Amendment - 17 Local Currency (Rp)	Additional	Deductional	Amendment - 18 Local Currency (Rp)	Remark	
			Contract	Amendment 17	Additional	Deductional	Amendment 18							
	<b>GENERAL ITEMS</b>													
	<i>Establishment</i>													
	Temporary Construction Road	LS	1.00	1.00	-	-	1.00	350,000,000.00	350,000,000.00	-	-	-	350,000,000.00	
	Contractor's Temporary Site Office and Facilities	LS	1.00	1.00	-	-	1.00	350,000,000.00	350,000,000.00	-	-	-	350,000,000.00	
	Engineer's Temporary Site Office and Facilities	LS	1.00	1.00	-	-	1.00	250,000,000.00	250,000,000.00	-	-	-	250,000,000.00	
	General Item for extention time to december 2013	LS	-	1.00	-	-	1.00	266,328,000.00	266,328,000.00	-	-	-	266,328,000.00	
	<b>TOTAL FOR BILL NO. I</b>							<b>1,216,328,000.00</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1,216,328,000.00</b>	
	<b>PUMPING STATION AND GATE</b>													
	<i>Preparatory Works</i>													
	Coffering and Dewatering	LS	1.00	1.00	-	-	1.00	1,413,772,669.39	1,413,772,669.39	-	-	-	1,413,772,669.39	
	<i>Pumping Station and Gates</i>													
	Structural Excavation for Pumping Station and Gates	m³	25,646.00	0.00	-	-	0.00	72,442.07	-	-	-	-	-	
	Structural Excavation for Pumping Station and Gates	m³	-	36,704.89	-	-	36,704.89	71,612.32	2,628,522,328.24	-	-	-	2,628,522,328.24	
	Excavation Below Water Level for Outlet Channel	m³	18,735.00	15,000.00	-	5,441.14	9,558.86	57,508.42	862,626,240.00	-	312,911,342.63	-	549,714,897.37	Deducted
	Backfill with Selected Soil	m³	4,574.00	13,666.36	-	-	13,666.36	95,770.01	1,308,827,386.03	-	-	-	1,308,827,386.03	
	Furnishing and Driving of PC Pile, D = 500 mm	m	10,641.00	0.00	-	-	0.00	729,642.27	-	-	-	-	-	
	Furnishing of PC Pile, D = 500 mm	m	-	9,375.00	-	-	9,375.00	697,733.19	6,541,248,656.25	-	-	-	6,541,248,656.25	
	Driving of PC Pile, D = 500 mm	m	-	7,834.84	-	-	7,834.84	31,909.08	250,002,536.35	-	-	-	250,002,536.35	
	Furnishing and Driving of PC Pile, D = 400 mm	m	1,260.00	0.00	-	-	0.00	569,069.13	-	-	-	-	-	
	Furnishing of PC Pile, D = 400 mm	m	-	3,624.00	-	-	3,624.00	539,240.63	1,954,208,043.12	-	-	-	1,954,208,043.12	
	Driving of PC Pile, D = 400 mm	m	-	3,419.79	-	-	3,419.79	29,828.50	102,007,206.02	-	-	-	102,007,206.02	
	Furnishing and Driving of PC Test Pile D = 500 mm	m	19.00	75.00	-	-	75.00	625,000.00	46,875,000.00	-	-	-	46,875,000.00	
	Leveling Concrete K125, Including Formwork	m³	41.00	84.71	-	-	84.71	864,930.15	73,268,233.01	-	-	-	73,268,233.01	
	Leveling Concrete K125, Including Formwork *)	m³	-	477.60	-	-	477.60	850,689.11	406,291,672.91	-	-	-	406,291,672.91	
	Concrete K300, Including Scaffolding and Formwork	m³	7,511.00	11,737.60	-	-	11,737.60	1,366,910.48	16,044,248,391.36	-	-	-	16,044,248,391.36	
	Deformed Reinforcing Bars	Kg	751,100.00	948,812.17	-	-	948,812.17	11,143.13	10,572,732,611.83	-	-	-	10,572,732,611.83	
	Furnishing and Driving Corrugated Concrete Sheet Pile type W	m	850.00	708.00	-	-	708.00	1,680,082.49	1,189,498,401.50	-	-	-	1,189,498,401.50	
	Furnishing and Driving Corrugated Concrete Sheet Pile type W	m	4,332.00	1,027.00	35.00	-	1,063.00	1,246,076.17	1,279,720,227.10	44,858,742.14	-	-	1,324,578,969.24	Additional CCSP at Guide Wall (3*12)
	Concrete Cap, K 300	m³	65.00	74.71	-	74.71	0.00	1,281,000.00	95,703,510.00	-	95,703,510.00	-	-	Omitted
	Furnishing and Driving of Steel Sheet Pile Type II	m	2,550.00	2,577.00	-	-	2,577.00	763,489.95	1,967,513,612.75	-	-	-	1,967,513,612.75	
	Furnishing and Driving of Steel Sheet Pile Type II *)	m	-	807.00	630.00	-	1,437.00	669,889.61	540,600,911.24	422,030,451.15	-	-	962,631,362.39	Additional at retaining wall part B (105*6)
	Water Stop, w = 200 mm	m	34.00	279.66	-	-	279.66	200,000.00	55,931,200.00	-	-	-	55,931,200.00	
	Dowel Bar D = 19 mm, L = 1 m and PVC Pipe	Kg	479.00	870.00	-	-	870.00	25,489.81	22,176,138.34	-	-	-	22,176,138.34	
	Dowel Bar D = 19 mm, L = 1 m and PVC Pipe *)	Kg	-	1,332.64	-	-	1,332.64	23,232.00	30,959,892.48	-	-	-	30,959,892.48	
	Gabion Mattress	m³	103.00	517.75	-	517.75	0.00	546,700.00	283,053,925.00	-	283,053,925.00	-	-	Not mentioned in design
	Hole, PVC pipe D = 100 mm, L = 600 mm	No.	84.00	84.00	-	-	84.00	45,000.00	3,780,000.00	-	-	-	3,780,000.00	
	Hand Rail , D = 50 mm, Galvanized Steel Pipe	Kg	1,005.00	10,448.19	-	-	10,448.19	22,325.63	233,262,371.87	-	-	-	233,262,371.87	
	Asphalt Concrete, t = 50 mm	ton	13.00	67.38	-	-	67.38	900,000.00	60,642,000.00	-	-	-	60,642,000.00	
	Concrete Parapet K 300	m³	42.00	35.57	-	35.57	0.00	1,281,000.00	45,565,170.00	-	45,565,170.00	-	-	Omitted
	Embankment	m³	7,709.00	7,483.25	-	-	7,483.25	155,898.23	1,166,625,392.23	-	-	-	1,166,625,392.23	
	Embankment *)	m³	-	0.00	-	-	0.00	-	-	-	-	-	-	
	Steel Door	LS	1.00	1.00	-	-	1.00	169,391,250.00	169,391,250.00	-	-	-	169,391,250.00	
	Aluminium Window	LS	1.00	1.00	-	-	1.00	121,630,005.00	121,630,005.00	-	-	-	121,630,005.00	
	Manhole Cover Steel	Kg	484.00	0.00	-	-	0.00	29,700.04	-	-	-	-	-	
	Manhole Cover Steel *)	Kg	-	0.00	-	-	0.00	21,018.80	-	-	-	-	-	
	Stainless Steel Pipe, D=250 mm	Kg	275.00	275.00	-	-	275.00	155,000.00	42,625,000.00	-	-	-	42,625,000.00	
	Stainless Steel Pipe, D=250 mm *)	Kg	-	1,395.70	1,321.83	73.87	140,559.05	196,178,259.11	-	185,795,645.98	-	-	10,382,613.13	Not mentioned in design
	Stainless Steel Guide Frame	Kg	204.00	204.00	-	-	204.00	155,000.00	31,620,000.00	-	-	-	31,620,000.00	
	Stainless Steel Guide Frame *)	Kg	-	5,662.33	-	-	5,662.33	128,323.53	726,610,145.31	-	-	-	726,610,145.31	
	Furnishing and Driving of PC Pile, D =													

No	Description	Unit	Quantity					PT. ADHI KARYA (Persero) JOINT					Remark
			Contract	Amendment 17	Additional	Deductional	Amendment 18	Unit Price (Rp)	Amendment - 17 Local Currency (Rp)	Additional	Deductional	Amendment - 18 Local Currency (Rp)	
10	Furnishing and placing Geotextile Bag (3.40 x 1.00 x .050 m), included soil backfilling a cross the river	pc	-	400.00	-	-	400.00	396,000.00	159,200,000.00	-	-	-	159,200,000.00
11	Furnishing and placing HDPE Geomembrane (t = 0,75 mm)	m <sup>2</sup>	-	503.66	-	-	503.66	49,000.00	39,390,120.00	-	-	-	39,390,120.00
12	Woden Pile, D = 70 mm L = 4 m, ctc = 0,5 m	m	-	346.00	-	-	346.00	17,250.36	6,003,125.28	-	-	-	6,003,125.28
13	Aggregate Class A	m <sup>3</sup>	-	36.62	-	-	36.62	266,798.52	9,771,229.05	-	-	-	9,771,229.05
14	Aggregate Class B	m <sup>3</sup>	-	41.23	-	-	41.23	261,436.02	10,903,860.46	-	-	-	10,903,860.46
15	Sand Bedding	m <sup>3</sup>	-	10.76	-	-	10.76	143,115.00	1,530,459.43	-	-	-	1,530,459.43
16	Concrete Kerb	m <sup>3</sup>	-	7.33	-	-	7.33	550,000.00	4,029,300.00	-	-	-	4,029,300.00
17	Sodding	m <sup>2</sup>	-	626.99	-	-	626.99	19,500.00	16,126,305.00	-	-	-	16,126,305.00
18	Concrete Block	m <sup>3</sup>	-	177.96	-	-	177.96	132,763.55	23,626,601.36	-	-	-	23,626,601.36
19	Dewatering for Method for Geotextile Bag Work at River Closure	hour	-	-	600.00	-	600.00	170,602.00	-	102,361,200.00	-	-	102,361,200.00
20	Temporary Embankment for Coverdam with Compaction	m <sup>3</sup>	-	-	807.49	-	807.49	112,013.00	-	90,449,601.40	-	-	90,449,601.40
21	Temporary Embankment for Coverdam without compaction	m <sup>3</sup>	-	-	1,409.63	-	1,409.63	111,046.71	-	166,526,755.62	-	-	166,526,755.62
22	Removal Temporary Coverdam of Method for Geotextile Bag Work	m <sup>3</sup>	-	-	2,307.12	-	2,307.12	44,364.00	-	102,353,071.68	-	-	102,353,071.68
	Steel Sheet Pile Type II for Counterweight Retaining Wall Pump House Downstream @24 m' in length	m'	0.00	432.00	-	-	432.00	851,440.87	367,822,455.84	-	-	-	367,822,455.84
	<b>Additional for Concrete Slab of Retaining Wall Gate House East Side</b>												
1	Furnishing ans Handling PC Pile D400 mm Type A3	m	-	-	864.00	-	864.00	567,822.70	-	490,598,812.80	-	-	490,598,812.80
2	Driving PC Pile D400 mm Type A3	m	-	-	864.00	-	864.00	29,901.72	-	25,835,086.08	-	-	25,835,086.08
3	Leveling Concrete K125, Including Formwork	m <sup>3</sup>	-	-	30.39	-	30.39	850,689.11	-	25,852,442.17	-	-	25,852,442.17
4	Concrete K300, Including Formwork	m <sup>3</sup>	-	-	202.48	-	202.48	1,366,910.48	-	276,772,032.98	-	-	276,772,032.98
5	Deformed Reinforcing Bars	Kg	-	-	41,523.56	-	41,523.56	11,143.13	-	462,702,442.39	-	-	462,702,442.39
	<b>TOTAL FOR BILL NO. II</b>					-	-	-	61,600,114,267.41	2,496,800,882.16	1,217,546,855.11	-	62,879,368,294.46
	<b>RETARDING POND</b>												
	<b>Preparatory Works</b>												
	Demolition of Existing Stone Masonry	L S	1.00	1.00	-	-	1.00	25,000,000.00	25,000,000.00	-	-	-	25,000,000.00
	Coffering and Dewatering	L S	1.00	1.00	-	-	1.00	2,207,697,217.79	2,207,697,217.79	-	-	-	2,207,697,217.79
	Excavation for Retarding Pond	m <sup>3</sup>	259,897.00	184,669.42	-	-	184,669.42	44,364.04	8,192,682,136.19	-	-	-	8,192,682,136.19
	<b>Slope Protection Work</b>												
	Structural Excavation for Revetment	m <sup>3</sup>	6,239.00	0.00	-	-	0.00	67,873.54	-	-	-	-	-
	Timber Pile, D = 150 mm L = 3 m	m	939.00	0.00	-	-	0.00	32,352.08	-	-	-	-	-
	Leveling Concrete K125, Including Formwork	m <sup>3</sup>	152.00	0.00	-	-	0.00	864,930.15	-	-	-	-	-
	Concrete K300, including Formwork	m <sup>3</sup>	546.00	58.68	-	-	58.68	1,366,910.48	80,210,306.67	-	-	-	80,210,306.67
	Deformed Reinforcing Bars	Kg	54,600.00	6,786.58	-	-	6,786.58	11,143.13	75,623,709.26	-	-	-	75,623,709.26
	Sand Bedding	m <sup>3</sup>	580.00	0.00	-	-	0.00	143,115.00	-	-	-	-	-
	Gabion Mattress	m <sup>3</sup>	468.00	0.00	-	-	0.00	546,700.00	-	-	-	-	-
	Cobble Filling	m <sup>3</sup>	437.00	0.00	-	-	0.00	146,650.00	-	-	-	-	-
	Concrete Block	m <sup>2</sup>	11,600.00	0.00	-	-	0.00	219,520.00	-	-	-	-	-
	Geotextile	m <sup>2</sup>	11,600.00	0.00	-	-	0.00	31,878.00	-	-	-	-	-
	Joint Filler, 10 mm thick (elastic material )	m <sup>2</sup>	580.00	0.00	-	-	0.00	225,000.00	-	-	-	-	-
	Joint Filler, 10 mm thick (elastic material )*	m <sup>2</sup>	580.00	0.00	-	-	0.00	-	-	-	-	-	-
	Furnishing and placing woven geotextile, characteristic tensile	m <sup>2</sup>	-	9,598.20	-	-	9,598.20	86,255.40	827,896,580.28	-	-	-	827,896,580.28
	Embankment	m <sup>3</sup>	44,874.00	46,663.42	-	-	46,663.42	155,898.23	7,274,744,350.43	-	-	-	7,274,744,350.43
	Embankment )*	m <sup>3</sup>	-	16,326.46	4,000.00	-	20,326.46	112,197.05	1,831,780,445.98	448,788,208.00	-	-	2,280,568,653.98
	Furnishing and Driving Corrugated Concrete Sheet Pile type W 350 A 1000	m	7,136.00	0.00	-	-	0.00	1,246,076.17	-	-	-	-	-
	Concrete Cap, K 300	m <sup>3</sup>	202.00	0.00	-	-	0.00	1,281,000.00	-	-	-	-	-
	<b>Inspection Road Pavement</b>												
	Aggregate Class A	m <sup>3</sup>	562.00	772.52	-	-	772.52	266,798.52	206,107,193.83	-	-	-	206,107,193.83
	Aggregate Class B	m <sup>3</sup>	749.00	1,114.43	-	-	1,114.43	264,436.02	294,695,435.44	-	-	-	294,695,435.44
	Sand Bedding	m <sup>3</sup>	225.00	300.13	-	-	300.13	143,115.00	42,953,104.95	-	-	-	42,953,104.95
	Concrete Block Pavement K 400, 200x100x100 mm	m <sup>2</sup>	3,744.00	1,652.22	-	-	1,652.22	146,020.00	241,257,164.40	-	-	-	241,257,164.40
	Concrete Block Pavement K 400, 200x100x100 mm *)	m <sup>2</sup>	-	3,350.05	-	-	3,350.05	132,763.55	444,764,544.08	-	-	-	444,764,544.08
	Concrete Kerb K 300	m <sup>3</sup>	71.00	3.64	96.41	-	100.05	550,000.00	2,002,315.97	53,025,184.03	-	-	55,027,500.00
	Cement Mortar	m <sup>3</sup>	2.00	14.55	-	-	14.55	135,000.00	1,964,250.00	-	-	-	1,964,250.00
	Woden Pile, D = 70 mm L = 4 m, ctc = 0,5 m	m	-	6,692.00	-</								

Item No	Description	Unit	QUANTITY					PT. ADHI KARYA (Persero) JOINT						Remark
			Contract	Amendment 17	Additional	Deductional	Amendment 18	Unit Price (Rp)	Amendment - 17 Local Currency (Rp)	Additional	Deductional	Amendment - 18 Local Currency (Rp)		
10.1.1	Embankment	m³	16,997.00	20,946.47	-	-	20,946.47	155,898.23	3,265,517,493.02	-	-	3,265,517,493.02		
10.1.11	Embankment *)	m³	-	1,453.33	-	-	1,453.33	112,197.05	163,059,341.68	-	-	163,059,341.68		
10.1.2	Furnishing and Driving of PC Pile, D = 400 mm	m	3,560.00	0.00	-	-	0.00	569,069.13	-	-	-	-		
10.1.3	Furnishing and Driving Corrugated Concrete Sheet Pile type W	m	3,096.00	3,006.00	-	-	3,006.00	1,246,076.17	3,745,704,968.52	-	-	3,745,704,968.52		
10.1.4	Leveling Concrete K125, including Formwork	m³	224.00	18.80	-	-	18.80	864,930.15	16,262,765.57	-	-	16,262,765.57		
10.1.5	Concrete K300, Including Formwork	m³	1,521.00	262.03	-	-	262.03	1,366,910.48	356,171,551.76	-	-	356,171,551.76		
10.1.6	Deformed Reinforcing Bars	Kg	152,100.00	19,196.07	-	-	19,196.07	11,143.13	213,904,207.52	-	-	213,904,207.52		
10.1.7	Water stop, w = 200 mm	m	78.00	0.00	-	-	0.00	200,000.00	-	-	-	-		
10.1.8	Dowel Bar D = 19 mm, L = 1 m and PVC Pipe	Kg	303.00	0.00	-	-	0.00	25,409.81	-	-	-	-		
10.1.9	Geotextile	m²	-	0.00	-	-	0.00	24,184.88	-	-	-	-		
10.1.10	Concrete Block	m²	-	0.00	-	-	0.00	219,520.00	-	-	-	-		
10.1.11	Sand Bedding	m³	-	0.00	-	-	0.00	143,115.00	-	-	-	-		
10.2	<b>Road Pavement Work</b>													
10.2.1	Aggregate Class A	m³	423.00	343.92	-	-	343.92	266,798.52	91,757,347.51	-	-	91,757,347.51		
10.2.2	Aggregate Class B	m³	565.00	495.27	-	-	495.27	264,436.02	130,967,228.37	-	-	130,967,228.37		
10.2.3	Sand Bedding	m³	164.00	137.57	-	-	137.57	143,115.00	19,688,330.55	-	-	19,688,330.55		
10.2.4	Concrete Kerb	m³	55.00	53.23	-	-	53.23	550,000.00	29,276,500.00	-	-	29,276,500.00		
10.2.5	Cement Mortar	m³	1.00	5.23	-	-	5.23	135,000.00	706,050.00	-	-	706,050.00		
10.2.6	Concrete Block Pavement K 400, 200x100x100 mm	m²	2,628.00	3,513.49	-	-	3,513.49	146,020.00	513,039,809.80	-	-	513,039,809.80		
10.2.7	Furnishing and Driving Corrugated Concrete Sheet Pile type W 500 A 1000	m'	-	4,522.00	-	-	4,522.00	1,680,082.49	7,597,333,010.74	-	-	7,597,333,010.74		
10.2.8	Furnishing and installing tie rod Ø 50 mm, bolt, plate, turn buckle	kg	-	0.00	-	-	0.00	18,545.63	-	-	-	-		
10.2.9	Furnishing and installing steel channel profile 240x85x9.5mm	kg	-	0.00	-	-	0.00	17,495.63	-	-	-	-		
10.2.9.1	Furnishing and installing steel channel profile 250x90x9mm	kg	-	44,725.55	-	-	44,725.55	17,495.63	782,501,450.72	-	-	782,501,450.72		
10.2.10	Furnishing and placing woven geotextile, characteristic tensile	m²	-	6,586.43	-	-	6,586.43	54,423.60	358,457,231.75	-	-	358,457,231.75		
10.2.11	Concrete Block	m²	-	0.00	-	-	0.00	219,520.00	-	-	-	-		
10.2.12	Concrete Cap, K 300	m³	-	167.86	-	-	167.86	1,281,000.00	215,028,660.00	-	-	215,028,660.00		
10.2.13	Geotextile	m²	-	0.00	-	-	0.00	24,184.88	-	-	-	-		
10.2.14	Cobble Filling	m³	-	0.00	-	-	0.00	146,650.00	-	-	-	-		
10.2.15	Furnishing and installing tie rod Ø 32 mm, bolt, plate, turn buckle	kg	-	45,488.15	-	-	45,488.15	18,545.63	843,606,171.84	-	-	843,606,171.84		
10.2.16	Furnishing and placing Geotextile Bag (3.40 x 1.00 x .050 m),	pcs	-	3,492.00	-	-	3,492.00	398,000.00	1,389,816,000.00	-	-	1,389,816,000.00		
10.2.17	Furnishing and placing HDPE Geomembrane (t = 0,75 mm)	m²	-	7,677.00	-	-	7,677.00	49,000.00	376,173,000.00	-	-	376,173,000.00		
10.2.18	Furnishing and Driving Corrugated Concrete Sheet Pile type W	m'	-	860.00	-	-	860.00	1,680,082.49	1,444,870,939.68	-	-	1,444,870,939.68		
10.4	<b>Stone Masonry at East Entrance</b>													
10.4.1	Structural Excavation	m³	0.00	827.36	-	-	827.36	71,612.32	59,249,169.08	-	-	59,249,169.08		
10.4.2	Wooden Pile, D70 mm L = 4 m	m'	0.00	348.00	-	-	348.00	17,250.36	6,003,125.28	-	-	6,003,125.28		
10.4.3	Stone Masonry 1:3	m³	0.00	225.09	-	-	225.09	603,062.25	135,743,281.85	-	-	135,743,281.85		
10.4.4	Weep Hole for Stone Masonry	Nos	0.00	88.00	-	-	88.00	33,792.15	2,973,709.20	-	-	2,973,709.20		
10.4.5	Dewatering for Stone Masonry	Ls	0.00	1.00	-	-	1.00	1,149,540.00	1,149,540.00	-	-	1,149,540.00		
10.4.6	Temporary Cofferdam and removal	m³	0.00	76.78	-	-	76.78	120,176.42	9,227,145.53	-	-	9,227,145.53		
10.4.7	Plestering, 1 PC : 3 Psr Up to Elv, +3.50 m	m²	0.00	0.00	170.00	-	170.00	38,439.00	-	6,534,630.00	-	-	6,534,630.00	
	<b>TOTAL FOR BILL NO. III</b>								52,893,383,410.55	501,813,392.03	10,596,274.92	53,391,135,157.66		
	<b>BUILDINGS</b>													
	<b>Buildings</b>													
	Embankment of Building Area	m³	6,288.00	7,353.86	-	-	7,353.86	155,898.23	1,146,453,720.90	-	-	1,146,453,720.90		
	Embankment of Building Area *)	m³	-	16,889.55	-	-	16,889.55	112,197.05	1,894,957,683.62	-	-	1,894,957,683.62		
	Furnishing and Driving of PC Pile D = 500 mm	m	1,710.00	3,450.00	-	-	3,450.00	729,642.27	2,517,265,831.50	-	-	2,517,265,831.50		
	Furnishing and Driving of PC Pile D = 350 mm	m	538.00	0.00	-	-	0.00	452,202.19	-	-	-	-		
	Furnishing and Driving of PC Pile D = 300 mm	m	150.00	0.00	-	-	0.00	387,904.04	-	-	-	-		
	Furnishing and Driving of PC Pile D = 450 mm	m	200.00	0.00	-	-	0.00	649,320.83	-	-	-	-		
	Power and Control House	Ls	1.00	1.00	-	-	1.00	3,940,309,408.71	3,940,309,408.71	-	-	3,940,309,408.71		
	Additional of Concrete Works Including Reinforcing Bar and Formwork for Power and Control House (Design Changed)	Ls	-	1.00	-	-	1.00	530,021,228.61	530,021,228.61	-	-	530,021,228.61		
	Acrylic Cover Louver	m²	-	62.59	-	-	62.59	1,704,466.00	-	106,682,526.94	-	-	106,682,526.94	
	Management Office	Ls	1.00	1.00	-	-	1.00	813,330,864.91	813,330,864.91	-	-	813,330,864.91	louver cover	
	Garage	Ls	1.00	1.00	-	1.00	0.00	713,660,207.87	713,660,207.87	-	713,660,207.87	-	7	

Item No	Description	Unit	Quantity					PT. ADHI KARYA (Persero) JOINT			Amendment - 17 Local Currency (Rp)			Remark
			Contract	Amendment 17	Additional	Deduction	Amendment 18	Unit Price (Rp)	Amendment - 17 Local Currency (Rp)	Additional	Amendment - 18 Local Currency (Rp)	Additional	Deduction	
IV.1.-25	Backfill with Selected Soil	m <sup>3</sup>			56.00	-	56.00	95,770.01		5,363,120.36	-	-	5,363,120.36	New Item
IV.1.-26	Bar Screen	Kg			30.70	-	30.70	11,143.13		342,093.94	-	-	342,093.94	New Item
IV.1.-27	Steel Angle 50x50x5	Kg			21.72	-	21.72	29,137.00		632,855.64	-	-	632,855.64	New Item
IV.1.-28	PVC Pipe D=10 cm (4")	m <sup>3</sup>			24.00	-	24.00	102,585.00		2,462,040.00	-	-	2,462,040.00	New Item
IV.1.-29	PVC Pipe D=2 cm (3/4")	m <sup>3</sup>			66.00	-	66.00	21,910.00		1,446,060.00	-	-	1,446,060.00	New Item
IV.1.-30	Pipa PVC Clamp	Unit			12.00	-	12.00	27,615.00		331,380.00	-	-	331,380.00	New Item
IV.1.-31	Elbow PVC 4"	unit			10.00	-	10.00	28,665.00		286,650.00	-	-	286,650.00	New Item
IV.1.-32	Elbow PVC 3/4"	unit			20.00	-	20.00	12,915.00		256,300.00	-	-	256,300.00	New Item
IV.1.-33	Tee PVC 3/4"	unit			40.00	-	40.00	12,915.00		516,600.00	-	-	516,600.00	New Item
IV.1.-34	Hitachi Vortex Blower Capacity 1.75m <sup>3</sup> /Min	unit			2.00	-	2.00	24,394,860.00		46,769,720.00	-	-	46,769,720.00	New Item
IV.1.-35	Yakult Container	pcs			4,930.00	-	4,900.00	2,030.00		9,947,000.00	-	-	9,947,000.00	New Item
IV.1.-36	PVC Septictank Regulator	unit			1.00	-	1.00	543,506.00		543,506.00	-	-	543,506.00	New Item
IV.1.-37	Automatic switcher including box panel and MCB	unit			1.00	-	1.00	7,036,050.00		7,036,050.00	-	-	7,036,050.00	New Item
IV.1.-38	Stainless Steel	Kg			115.18	-	115.18	140,559.00		16,189,590.00	-	-	16,189,590.00	New Item (harga item. II.2.25.1)
IV.1.-39	Water tap stopping , ø 3/4"	unit			12.00	-	12.00	300,956.00		3,611,472.00	-	-	3,611,472.00	New Item
27	Cable Feeder NYX 4 X 16 mm <sup>2</sup> for building Area	m <sup>3</sup>			685.00	-	685.00	255,675.00		175,137,375.00	-	-	175,137,375.00	pendukung kapasitas AC 5 PK
L.28	Air Conditioning 5 PK Floor Standing													to fulfill the temperature in the pump pane house
V.1.281	Air Conditioning 5 PK Floor Standing (supplay & Install)	Unit			2.00	-	2.00	32,251,275.00		64,502,550.00	-	-	64,502,550.00	New Item
V.1.282	Cable NYM 3 x 2,5 mm <sup>2</sup>	mtr			45.00	-	45.00	37,044.00		1,666,980.00	-	-	1,666,980.00	New Item (persetujuan belum ada)
V.1.283	MCB 16 A	pcs			2.00	-	2.00	231,000.00		462,000.00	-	-	462,000.00	New Item (persetujuan belum ada)
V.1.284	Clamp For cable	pack			3.00	-	3.00	21,000.00		63,000.00	-	-	63,000.00	New Item (persetujuan belum ada)
V.1.285	Pipe 5/8 Inch	mtr			4.00	-	4.00	210,000.00		840,000.00	-	-	840,000.00	New Item (persetujuan belum ada)
V.1.286	Pipe 3/8 Inch	mtr			4.00	-	4.00	210,000.00		840,000.00	-	-	840,000.00	New Item (persetujuan belum ada)
V.1.287	Clamp Pipe	Pcs			10.00	-	10.00	21,000.00		210,000.00	-	-	210,000.00	New Item (persetujuan belum ada)
V.1.288	Breket For Outdoor unit	pcs			2.00	-	2.00	70,000.00		140,000.00	-	-	140,000.00	New Item (persetujuan belum ada)
V.1.289	Cost Wage Fixing Installation	unit			2.00	-	2.00	1,400,000.00		2,800,000.00	-	-	2,800,000.00	New Item (persetujuan belum ada)
V.1.290	Exhaust Pipe Water	Pcs			4.00	-	4.00	21,000.00		84,000.00	-	-	84,000.00	New Item (persetujuan belum ada)
29	Displacement of Box Panel Lamp Instrumen at Pump House Building													adjustment of the cable installation
1.29.1	Cable NYM 3 x 2,5 mm <sup>2</sup>	mtr			80.00	-	80.00	37,044.00		2,963,520.00	-	-	2,963,520.00	New Item
1.29.2	Pipe Pvc "2" inch	mtr			8.00	-	8.00	37,170.00		297,360.00	-	-	297,360.00	New Item
1.29.3	Knee Pvc "2" Inch	pcs			6.00	-	6.00	21,000.00		126,000.00	-	-	126,000.00	New Item
1.29.4	Duradur 20 mm"	pcs			1.00	-	1.00	11,200.00		11,200.00	-	-	11,200.00	New Item
1.29.5	Clamp Pipe	pcs			10.00	-	10.00	4,200.00		42,000.00	-	-	42,000.00	New Item
1.29.6	Aids Material	ls			1.00	-	1.00	70,000.00		70,000.00	-	-	70,000.00	New Item
1.29.7	Cost Removal & Install	ls			1.00	-	1.00	280,000.00		280,000.00	-	-	280,000.00	New Item
<i>Road Pavement Work</i>														
Aggregate Class A		m <sup>3</sup>	239.00	282.57	-	-	282.57	266,798.52	75,389,258.22	-	-	-	75,389,258.22	
Aggregate Class B		m <sup>3</sup>	319.00	384.09	-	-	384.09	264,436.02	101,567,231.50	-	-	-	101,567,231.50	
Sand Bedding		m <sup>3</sup>	96.00	113.03	-	-	113.03	143,115.00	16,176,288.45	-	-	-	16,176,288.45	
Concrete Kerb		m <sup>3</sup>	26.00	21.07	-	-	21.07	550,000.00	11,588,500.00	-	-	-	11,588,500.00	
Cement Mortar		m <sup>3</sup>	1.00	9.28	-	-	9.28	135,000.00	1,252,800.00	-	-	-	1,252,800.00	
Concrete Block Pavement K 400, 200x100x100 mm		m <sup>2</sup>	1,597.00	2,683.76	-	-	2,683.76	146,020.00	421,089,455.14	-	-	-	421,089,455.14	
<b>TOTAL FOR BILL NO. IV</b>									<b>16,919,603,004.50</b>	<b>608,702,492.98</b>	<b>815,688,895.61</b>	<b>16,712,616,601.96</b>		
<b>TRASHRACK (U/S), (CIVIL WORKS)</b>														
Temporary Cofferdam and Dewatering		LS	1.00	1.00	-	-	1.00	3,342,701,250.00	3,342,701,250.00	-	-	-	3,342,701,250.00	
Structural Excavation for Trash Rack		m <sup>3</sup>	2,494.00	7,180.76	-	-	7,180.76	67,873.54	487,383,626.22	-	-	-	487,383,626.22	
Furnishing and Driving of PC Pile D = 500 mm		m	3,434.00	0.00	-	-	0.00	729,642.27	-	-	-	-	2,197,859,548.50	
Furnishing of PC Pile D = 500 mm		m	3,434.00	3,150.00	-	-	3,150.00	697,733.19	2,197,859,548.50	-	-	-	2,197,859,548.50	
Driving of PC Pile D = 500 mm		m	3,434.00	3,142.27	-	-	3,142.27	31,909.08	100,266,944.81	-	-	-	100,266,944.81	
Furnishing and Driving of Steel Sheet Pile Type II		m	777.00	750.00	-	-	750.00	763,489.95	572,617,465.88	-	-	-	572,617,465.88	
Leveling Concrete K125, Including Formwork		m <sup>3</sup>	52.00	197.76	-	-	197.76	864,930.15	171,052,054.40	-	-	-	171,052,054.40	
Concrete K300 Including Scaffolding and Formwork														

Item No	Description	Unit	Quantity					PT. ADHI KARYA (Persero) 201NT					Remark
			Contract	Amendment 17	Additional	Deductional	Amendment 18	Unit Price (Rp)	Amendment - 17 Local Currency (Rp)	Additional	Deductional	Amendment - 18 Local Currency (Rp)	
VI.3	Staff Gauges	L.S	1.00	1.00	-	-	1.00	4,543,743.75	4,543,743.75	-	-	4,543,743.75	
VI.4	Concrete for blocking of a culvert including formwork	m <sup>3</sup>	5.00	6.00	-	-	6.00	2,250,000.00	11,250,000.00	-	-	11,250,000.00	
VI.5	Outdoor Lighting	L.S	1.00	1.00	-	-	1.00	90,000,000.00	90,000,000.00	-	-	90,000,000.00	
VI.6	Tree Painting	No.	130.00	130.00	-	-	130.00	900,000.00	117,000,000.50	-	-	117,000,000.00	
VI.7	Furnishing & Driv. Corrug Concre Sheet Pile Waterflow Guidance	m	2,600.00	0.00	-	-	0.00	1,246,076.17	-	-	-	-	
VI.8	Barbed Wire Fence of Retarding Pond	m	13,014.00	0.00	-	-	0.00	7,051.21	-	-	-	-	omitted
VI.9	Concrete Pillar Fence, K300 of Retarding Pond	m <sup>3</sup>	61.00	61.56	-	61.56	0.00	1,281,000.00	78,858,360.00	-	78,858,360.00	-	omitted
VI.10	Deformed Reinforcing Bars	kg	-	7,600.00	-	7,600.00	0.00	11,143.13	84,776,895.00	-	84,776,895.00	-	omitted
VI.11	Boring and Standard Penetration Test	point	-	32.00	-	-	32.00	12,253,500.00	392,112,000.00	-	-	392,112,000.00	
VI.12	Dutch Cone Penetrometer Test ( Depth = 20 m' )	point	-	30.00	-	-	30.00	1,293,075.00	38,792,250.00	-	-	38,792,250.00	
VI.13	Topographical Survey Equipment and Accessories	Set	-	1.00	-	-	1.00	106,070,000.00	106,070,000.00	-	-	106,070,000.00	
VI.14	Elevation Survey From National Bench Mark (ITG 49)	ls	-	1.00	-	-	1.00	14,230,000.00	14,230,000.00	-	-	14,230,000.00	
VI.15	Temporary Drainage Pipe on Main Entrance of Pumping Station and Retarding Pond	RCP 800 x 2440mm,type RJ, Class - 3 AS (Main Entrance)	Unit	18.00	-	-	18.00	3,489,649.00	62,813,682.00	-	-	62,813,682.00	
	Sand Bedding	m <sup>3</sup>	6.99	-	-	-	6.99	143,115.00	1,206,603.85	-	-	1,206,603.85	
VI.16	Weep Hole	Nos	-	-	151.00	-	151.00	33,792.15	-	-	9,102,614.65	-	5,102,614.65 New Item
	Weep Hole for Retaining Wall Part A	Nos	-	-	18.00	-	18.00	33,792.15	-	-	608,258.70	-	608,258.70 New Item
	Weep Hole for Retaining Wall Downstream	Nos	-	-	43.00	-	43.00	33,792.15	-	-	1,453,062.45	-	1,453,062.45 New Item
	Weep Hole for Retaining Wall Gate House West Side	Nos	-	-	33.00	-	33.00	33,792.15	-	-	1,115,140.95	-	1,115,140.95 New Item
	Weep Hole for Retaining Wall Gate House East Side	Nos	-	-	121.00	-	121.00	33,792.15	-	-	4,068,850.15	-	4,068,850.15 New Item
	Weep Hole for Retaining Wall Part B	Nos	-	-	24.00	-	24.00	33,792.15	-	-	811,011.60	-	811,011.60 New Item
	Weep Hole for Retaining Wall Trashrack D/S West Side	Nos	-	-	30.00	-	30.00	33,792.15	-	-	1,013,764.50	-	1,013,764.50 New Item
	Weep Hole for Retaining Wall Trashrack D/S East Side	Nos	-	-	12.00	-	12.00	33,792.15	-	-	405,505.80	-	405,505.80 New Item
	Weep Hole for Retaining Wall Trashrack U/S West Side	Nos	-	-	22.80	-	22.80	33,792.15	-	-	743,427.30	-	743,427.30 New Item
	TOTAL FOR BILL NO. VI							1,423,222,719.60	314,490,353.75	163,635,255.00		1,574,077,818.35	
<b>BARU RIVER WORKS</b>													
	<i>Baru River Works</i>												
1	Furnishing and Driving Corrugated Concrete Sheet Pile t = 120	m	592.00	592.00	-	-	592.00	1,246,076.17	737,677,092.94	-	-	737,677,092.94	
2	Embankment	m <sup>3</sup>	268.00	0.00	-	-	0.00	155,898.23	-	-	-	-	
1.1.2.1	Embankment *)	m <sup>3</sup>	-	1,348.27	-	943.79	404.46	112,197.05	151,271,919.30	-	105,890,343.51	45,381,575.79	
1.1.2.2	Embankment without compaction	m <sup>3</sup>	-	-	-	943.79	943.79	109,126.95	-	102,992,815.01	-	102,992,815.01	New Item
3	Concrete Cap, K 300	m <sup>3</sup>	19.00	19.00	-	-	19.00	1,281,000.00	24,339,000.00	-	-	24,339,000.00	
4	Deformed Reinforcing Bars	kg	-	1,900.00	-	-	1,900.00	11,143.13	21,171,937.50	-	-	21,171,937.50	
5	Furnishing and Installing Steel Channel Profile 250 x 90 x 9 mm	Kg	-	4,470.13	-	-	4,470.13	17,495.63	78,207,683.20	-	-	78,207,683.20	
	Furnishing and installing Tie Rod Ø 32mm, Bolt, Plate, Turn buckle	Kg	-	3,359.10	-	-	3,359.10	18,545.63	62,296,534.70	-	-	62,296,534.70	
	Furnishing and Placing Woven Geotextile, Characteristic Tensile St	m <sup>2</sup>	-	522.55	-	-	522.55	86,255.40	45,072,933.07	-	-	45,072,933.07	
	Structural Excavation	m <sup>3</sup>	-	115.40	-	-	115.40	67,873.54	-	7,832,606.92	-	7,832,606.92	
	Stone Masonry 1:3	m <sup>3</sup>	-	57.70	-	-	57.70	603,062.25	-	34,796,691.83	-	34,796,691.83	
0	Furnishing and Installing RCP 800 x 2440mm,type RJ, Class - 3	Unit	-	6.00	-	-	6.00	3,489,649.00	-	20,937,894.00	-	20,937,894.00	
1	Sand Bedding	m <sup>3</sup>	-	1.44	-	-	1.44	143,115.00	-	206,085.60	-	206,085.60	
2	Sodding	m <sup>2</sup>	-	392.03	-	-	392.03	19,500.00	-	7,644,537.01	-	7,644,537.01	
	Hand Rail , D = 50 mm, Galvanized Steel Pipe	kg	-	959.53	-	-	959.53	22,325.63	-	21,422,106.96	-	21,422,106.96	
	TOTAL FOR BILL NO. VII							1,120,037,100.76	195,832,737.33	105,890,343.51		1,209,979,494.58	
<b>SUPPLYING MAINTENANCE EQUIPMENTS</b>													
	<i>Supplying Maintenance Equipments</i>												
	Supply of Backhoes	No.	1.00	0.00	-	-	-	1,182,500,000.00	-	-	-	-	
	Supply of Garbage Truck	No.	3.00	3.00	-	-	3.00	233,970,000.00	701,910,000.00	-	-	701,910,000.00	
	Supply of Truck Crane	No.	1.00	1.00	-	-	1.00	506,000,000.00	506,000,000.00	-	-	506,000,000.00	
	Supply of Garbage Containers	No.	6.00	6.00	-	-	6.00	40,000,000.00	240,000,000.00	-	-	240,000,000.00	
	Supply of Forklifts	No.	1.00	1.00	-	-	1.00	247,500,000.00	247,500,000.00	-	-	247,500,000.00	
	Supply of Wheel Loader	No.	1.00	0.00	-	-	-	1,595,000,000.00	-	-	-	-	
	Supply of Aluminium Boat	No.	1.00	1.00	-	-	1.00	95,000,000.00	95,000,000.00	-	-	95,000,000.00	
	Supply of Portable Sump Pump	No.	2.00	2.00	-	-	2.00	4,000,000.00	8,000,000.00	-	-	8,000,000.00	
	Supply of Submersible Sump Pump	No.	2.00	2.00	-	-	2.00	15,000,000.00	30,000,000.00	-	-	30,000,000.00	
	Supply of Generator	No.	1.00	1.00	-	-	1.00	170,500,000.00	170,500,000.00	-	-	170,500,000.00	
	Supply of 4 WD Car	No.	1.00	0.00	-	-	-	330,000,000.00	-</				

Item No	Description	Unit	QUANTITY					PT. ADHI KARYA (Persero) JOINT						Remark
			Contract	Amendment 17	Additional	Deductional	Amendment 18	Unit Price (Rp)	Amendment - 17 Local Currency (Rp)	Additional	Deductional	Amendment - 18 Local Currency (Rp)		
XII.17	Telephone sheet	PCN			1.00		1.00	531,657.00	531,657.00			531,657.00	New Item	
	<b>TOTAL FOR BILL NO. XIII</b>								<b>691,294,349.73</b>	<b>950,978,832.88</b>	<b>0.00</b>	<b>1,682,273,082.61</b>		
<b>Ground Reservoir</b>														
1.	Furnishing of Mini Pile 280 x 280 x 280 mm x 3m	m			114.00		114.00	104,735.00				21,059,790.00	water supply requirement and fire fighting	
2.	Driving of Mini Pile 280 x 280 x 280 mm x 3m	m			114.00		114.00	20,430.00				2,329,020.00	New Item	
3.	Structural Excavation	m3			198.20		198.20	71,612.32				14,193,418.60	New Item	
4.	Backfill with Selected Soil	m3			59.46		59.46	95,770.01				5,694,427.12	Additional	
5.	Leveling Concrete K125, including Formwork	m3			15.79		15.79	850,689.11				13,432,381.11	Additional	
6.	Concrete K300 Including Scaffolding and Formwork	m3			80.97		80.97	1,366,910.40				110,674,640.43	Additional	
7.	Deformed Reinforcing Bars	kg			24,072.52		24,072.52	11,143.13				268,243,099.43	Additional	
8.	Sand Filling	m3			100.00		100.00	274,965.00				27,496,500.00	New Item	
9.	Brick Masonry, 1 cement : 3 sand Up to Elv +3.50 m	m2			69.64		69.64	96,370.00				6,711,206.80	New Item	
10.	Plastering, 1 PC : 3 Psr Up to Elv. +3.50 m	m2			179.14		179.14	38,439.00				6,885,962.46	New Item	
11.	Hollow Concrete 15 x 30 cm	Nos			33.00		33.00	28,087.00				926,871.00	New Item	
	<b>TOTAL OF BILL AND DAY WORKS</b>								<b>160,439,874,377.57</b>	<b>8,866,579,110.78</b>	<b>0.00</b>	<b>2,313,357,624.15</b>	<b>163,996,363,179.00</b>	

For and On Behalf of :

PT. ADHI KARYA (Persero) Tbk - PT. PEMBANGUNAN PERUMAHAN (Persero)

JOINT VENTURE



Ir. BEP Adji Satmoko, MM

In the capacity of Head of Construction IV Division  
PT. ADHI KARYA (Persero) Tbk

Description	Unit	Quantity					Kt. Adm Karya (Cement) X Quant				Remark	
		Contract	Amendment 17	Additional	Deduction	Amendment 18		Unit Price (Rp)	Amendment - 17 Local Currency (Rp)	Additional		
Steel (stikling)	Kg	200.00	180.00	-	-	180.00	25,000.00	11,250,000.00	-	-	11,250,000.00	
Deformed Reinforcing Bars	Kg	400.00	450.00	-	-	450.00	9,000.00	3,225,000.00	-	-	3,225,000.00	
Selected Soil	m <sup>3</sup>	250.00	250.00	-	-	250.00	60,640.00	17,160,000.00	-	-	17,160,000.00	
<b>TOTAL FOR DAYWORK</b>								<b>708,136,000.00</b>	<b>9.00</b>	<b>0.00</b>	<b>708,136,000.00</b>	
<b>BORING AND GROUTING WORK</b>												
<b>Retaining Wall Part A (West Side of Building Area)</b>												
Boring	m'	2,103.00	-	-	-	2,103.00	206,884.00	420,467,620.00	-	-	420,467,620.00	
Grouting	m'	1,700.00	-	-	-	1,700.00	172,840.00	304,198,400.00	-	-	304,198,400.00	
Cement	kg	140,000.00	-	-	-	140,000.00	1,232.00	173,168,000.00	-	-	173,168,000.00	
Sand	kg	140,000.00	-	-	-	140,000.00	281.00	39,561,000.00	-	-	39,561,000.00	
Dutch Cone Test up to elevation EL. - 21.00 m before grouting point	point	8.00	-	-	-	5.00	1,293,000.00	6,465,000.00	-	-	6,465,000.00	
Dutch Cone Test up to elevation EL. - 21.00 m after grouting point	point	8.00	-	-	-	5.00	1,293,000.00	6,465,000.00	-	-	6,465,000.00	
<b>Retaining Wall Downstream Part (North Side of Pumping House)</b>												
Boring	m'	2,140.00	-	-	-	2,140.00	206,884.00	461,661,404.00	-	-	461,661,404.00	
Grouting	m'	1,780.00	-	-	-	1,780.00	172,840.00	309,383,600.00	-	-	309,383,600.00	
Cement	kg	143,200.00	-	-	-	143,200.00	1,232.00	176,522,400.00	-	-	176,522,400.00	
Sand	kg	143,200.00	-	-	-	143,200.00	281.00	40,239,200.00	-	-	40,239,200.00	
Dutch Cone Test up to elevation EL. - 24.00 m before grouting point	point	5.00	-	-	-	5.00	1,293,000.00	6,465,000.00	-	-	6,465,000.00	
Dutch Cone Test up to elevation EL. - 24.00 m after grouting point	point	9.00	-	-	-	9.00	1,293,000.00	11,637,000.00	-	-	11,637,000.00	
<b>Emergency Retaining Wall Part B (East Side of Geta House)</b>												
Boring	m'	2,179.00	-	-	-	2,179.00	206,884.00	512,865,496.00	-	-	512,865,496.00	
Grouting	m'	2,142.00	-	-	-	2,142.00	172,840.00	370,223,280.00	-	-	370,223,280.00	
Cement	kg	171,350.00	-	-	-	171,350.00	1,232.00	211,115,620.00	-	-	211,115,620.00	
Sand	kg	171,350.00	-	-	-	171,350.00	281.00	46,152,160.00	-	-	46,152,160.00	
Dutch Cone Test up to elevation EL. - 21.00 m before grouting point	point	10.00	-	-	-	10.00	1,293,000.00	12,930,000.00	-	-	12,930,000.00	
Dutch Cone Test up to elevation EL. - 21.00 m after grouting point	point	10.00	-	-	-	10.00	1,293,000.00	12,930,000.00	-	-	12,930,000.00	
<b>Retaining Wall of Upstream Track</b>												
Boring	m'	1,039.00	-	-	-	1,039.00	206,884.00	214,852,476.00	-	-	214,852,476.00	
Grouting	m'	693.00	-	-	-	693.00	172,840.00	154,346,120.00	-	-	154,346,120.00	
Cement	kg	71,440.00	-	-	-	71,440.00	1,232.00	88,014,080.00	-	-	88,014,080.00	
Sand	kg	71,440.00	-	-	-	71,440.00	281.00	20,074,640.00	-	-	20,074,640.00	
Dutch Cone Test up to elevation EL. - 21.00 m before grouting point	point	4.00	-	-	-	4.00	1,293,000.00	5,172,000.00	-	-	5,172,000.00	
Dutch Cone Test up to elevation EL. - 21.00 m after grouting point	point	4.00	-	-	-	4.00	1,293,000.00	5,172,000.00	-	-	5,172,000.00	
<b>Fuel Tank Foundation of Power and Control House</b>												
Boring	m'	355.91	-	-	-	355.91	206,884.00	73,632,291.32	-	-	73,632,291.32	
Grouting	m'	330.00	-	-	-	330.00	172,840.00	57,037,200.00	-	-	57,037,200.00	
Cement	kg	26,400.00	-	-	-	26,400.00	1,232.00	32,524,000.00	-	-	32,524,000.00	
Sand	kg	26,400.00	-	-	-	26,400.00	281.00	7,418,400.00	-	-	7,418,400.00	
<b>Guard House</b>												
Boring	m'	199.96	-	-	-	199.96	206,884.00	41,368,731.52	-	-	41,368,731.52	
Grouting	m'	189.00	-	-	-	189.00	172,840.00	32,666,760.00	-	-	32,666,760.00	
Cement	kg	15,120.00	-	-	-	15,120.00	1,232.00	18,627,840.00	-	-	18,627,840.00	
Sand	kg	15,120.00	-	-	-	15,120.00	281.00	4,248,720.00	-	-	4,248,720.00	
<b>Storage Building Area</b>												
Boring	m'	1,878.97	-	-	-	1,878.97	206,884.00	388,729,657.02	-	-	388,729,657.02	
Grouting	m'	1,853.73	-	-	-	1,853.73	172,840.00	320,398,001.84	-	-	320,398,001.84	
Cement	kg	148,298.08	-	-	-	148,298.08	1,232.00	182,703,234.56	-	-	182,703,234.56	
Sand	kg	148,298.08	-	-	-	148,298.08	281.00	41,671,760.48	-	-	41,671,760.48	
Dutch Cone Test up to elevation EL. - 21.00 m before grouting point	point	3.00	-	-	-	3.00	1,293,000.00	3,879,000.00	-	-	3,879,000.00	
Dutch Cone Test up to elevation EL. - 21.00 m after grouting point	point	3.00	-	-	-	3.00	1,293,000.00	3,879,000.00	-	-	3,879,000.00	
<b>TOTAL FOR BILL NO. X</b>												
<b>Fence for Pumping Station and Retarding Pond</b>												
<b>Precast Panel Fence</b>												
Structural Excavation of fence foundation	m <sup>3</sup>	1,383.00	-	-	-	1,383.00	39,679.09	54,876,181.47	-	-	54,876,181.47	
Backfill	m <sup>3</sup>	1,209.00	-	-	-	1,209.00	41,663.36	50,371,002.24	-	-	50,371,002.24	
Wooden Pile	m'	3,240.00	-	-	-	3,240.00	17,250.00	55,890,000.00	-	-	55,890,000.00	
Sand Bedding	m <sup>3</sup>	12.96	-	-	-	12.96	143,115.00	1,854,770.40	-	-	1,854,7	

Item No	Description	Unit	Quantity					PT. ADHI KARYA (Persero) JOINT					Remark	
			Contract	Amendment 17	Additional	Deductional	Amendment 18	Unit Price (Rp)	Amendment - 17 Local Currency (Rp)	Amendment - 17 Local Currency (Rp)	Additional	Deductional	Amendment - 18 Local Currency (Rp)	
XII.7	Masonry and Ceramic Works													
XII.7.	Brick Masonry, 1 cement : 3 sand Up to Elv +3.50 m	m <sup>2</sup>	-	-	-	172.55	-	172.55	96,570.00	-	16,628,643.50	-	16,628,643.50	New Item
XII.7.	Brick Masonry, 1 cement : 3 sand Elv +3.51 up to elv. +10.75	m <sup>2</sup>	-	-	-	320.44	-	320.44	105,872.00	-	33,925,623.68	-	33,925,623.68	New Item
XII.7.	Hollow Concrete 15 x 35 cm	nos	-	-	-	71.00	-	71.00	49,087.00	-	3,485,177.00	-	3,485,177.00	New Item
XII.7.	Ceramic of floor, 30 x 30 cm	m <sup>2</sup>	-	-	-	40.63	-	40.63	267,970.00	-	10,887,085.16	-	10,887,085.16	New Item
XII.7.	Ceramic of toilet floor, 25 x 25 cm	m <sup>2</sup>	-	-	-	1.96	-	1.96	223,111.00	-	436,739.78	-	436,739.78	New Item
XII.7.	Ceramic of toilet wall, 25 x 25 cm	m <sup>2</sup>	-	-	-	7.20	-	7.20	224,400.00	-	1,615,343.40	-	1,615,343.40	New Item
XII.7.	Natural Stone	m <sup>2</sup>	-	-	-	50.50	-	50.50	231,131.00	-	11,672,115.50	-	11,672,115.50	New Item
XII.7.	Concrete Block Pavement K 400, 200x100x100 mm	m <sup>2</sup>	-	-	-	27.03	-	27.03	146,020.00	-	3,946,920.60	-	3,946,920.60	New Item
XII.7.	Sand Bedding	m <sup>3</sup>	-	-	-	-	-	-	143,115.00	-	-	-	-	
XIII.8	Plastering Works													
XIII.	Plastering, 1 PC : 3 Par Up to Elv. +3.50 m	m <sup>2</sup>	-	-	-	419.93	-	419.93	38,439.00	-	16,141,689.27	-	16,141,689.27	New Item
XIII.	Plastering, 1 PC : 3 Par Elv. 3.50 m Up to Elv. +10.75 m	m <sup>2</sup>	-	-	-	779.87	-	779.87	61,644.00	-	46,074,306.28	-	46,074,306.28	New Item
XIII.	Plastering of toilet wall, 1 cement : 2 sand	m <sup>2</sup>	-	-	-	4.20	-	4.20	45,073.00	-	189,306.60	-	189,306.60	New Item
XIII.	Finishing of Plastering Up to Elv. +3.50 m	m <sup>2</sup>	-	-	-	424.13	-	424.13	23,126.00	-	9,808,430.38	-	9,808,430.38	New Item
XIII.	Finishing of Plastering Elv. +3.50 m up to Elv. +10.75 m	m <sup>2</sup>	-	-	-	779.87	-	779.87	38,246.00	-	29,826,908.02	-	29,826,908.02	New Item
XIII.	Skoning 1 : 2 (Plastering of Corner)	m'	-	-	-	530.76	-	530.76	30,125.00	-	15,969,145.00	-	15,969,145.00	New Item
XII.9	Truss and Roof Works													
XII.9.	Truss of light metal	m <sup>2</sup>	-	-	-	326.76	-	326.76	241,403.00	-	78,879,709.69	-	78,879,709.69	New Item
XII.9.	Zincalum roof	m <sup>2</sup>	-	-	-	326.76	-	326.76	296,520.00	-	96,889,481.56	-	96,889,481.56	New Item
XII.9.	Plain edge ridge capping	m'	-	-	-	26.00	-	26.00	210,335.00	-	5,468,710.00	-	5,468,710.00	New Item
XII.9.	Fascia of wood plank	m	-	-	-	77.48	-	77.48	141,015.00	-	10,925,842.20	-	10,925,842.20	New Item
XII.10	Ceiling Works													
XII.10.	Ceiling of calsi board and frame	m <sup>2</sup>	-	-	-	305.84	-	305.84	145,069.00	-	44,367,380.71	-	44,367,380.71	New Item
XII.10.	Comice of calsi board ceiling	m	-	-	-	170.95	-	170.95	17,430.00	-	2,979,658.50	-	2,979,658.50	New Item
XII.11	Door Frame and Window Works													
XII.11.	Aluminum frame	m	-	-	-	32.46	-	32.46	143,999.00	-	4,674,207.54	-	4,674,207.54	New Item
XII.11.	Window type AW3 incl. accessories for storage	unit	-	-	-	1.00	-	1.00	4,107,120.00	-	4,107,120.00	-	4,107,120.00	New Item
XII.11.	Door type AD1 incl. accessories for storage	unit	-	-	-	1.00	-	1.00	6,440,551.00	-	6,440,551.00	-	6,440,551.00	New Item
XII.11.	Door type AD3 incl. accessories for storage	unit	-	-	-	2.00	-	2.00	3,480,542.00	-	6,961,084.00	-	6,961,084.00	New Item
XII.11.	HPL door type AD4 incl. accessories for storage	unit	-	-	-	1.00	-	1.00	2,347,800.00	-	2,347,800.00	-	2,347,800.00	New Item
XII.11.	Window type AW4 incl. accessories for storage	unit	-	-	-	1.00	-	1.00	492,972.00	-	492,972.00	-	492,972.00	New Item
XII.11.	Window type AW5 incl. accessories for storage	unit	-	-	-	3.00	-	3.00	1,436,178.00	-	4,308,534.00	-	4,308,534.00	New Item
XII.11.	Mechanic Rolling Door L=3.70 m, H=5.00 m	unit	-	-	-	2.00	-	2.00	48,520,500.00	-	97,041,000.00	-	97,041,000.00	New Item
XII.12	Plumbing Works													
XII.12.	Pipe for water supply , ø 1/2" PVC	M	-	-	-	2.00	-	2.00	17,648.00	-	35,296.00	-	35,296.00	New Item
XII.12.	Pipe for water supply, ø 3/4" PVC	M	-	-	-	20.00	-	20.00	21,910.00	-	438,200.00	-	438,200.00	New Item
XII.12.	Pipe for water supply, ø 2" PVC	M	-	-	-	6.00	-	6.00	37,170.00	-	223,020.00	-	223,020.00	New Item
XII.12.	Pipe for sewage , ø 4" PVC	M	-	-	-	6.00	-	6.00	102,585.00	-	615,510.00	-	615,510.00	New Item
XII.12.	Water closet (WC)	Unit	-	-	-	1.00	-	1.00	2,891,805.00	-	2,891,805.00	-	2,891,805.00	New Item
XII.12.	Water container of fibre glass	Unit	-	-	-	1.00	-	1.00	400,050.00	-	400,050.00	-	400,050.00	New Item
XII.12.	Soap ceramic box	Unit	-	-	-	1.00	-	1.00	66,806.00	-	66,806.00	-	66,806.00	New Item
XII.12.	Water tap, ø 1/2"	Unit	-	-	-	3.00	-	3.00	181,335.00	-	544,005.00	-	544,005.00	New Item
XII.12.	Wash basin set	Unit	-	-	-	1.00	-	1.00	759,255.00	-	759,255.00	-	759,255.00	New Item
XII.12.	Water tap stopping , ø 3/4"	Unit	-	-	-	1.00	-	1.00	300,956.00	-	300,956.00	-	300,956.00	New Item
XII.12.	Floor drain	Unit	-	-	-	1.00	-	1.00	220,675.00	-	220,675.00	-	220,675.00	New Item
XII.13	Painting Works													
XII.13.	Exterior painting up to Elv. +3.50m	m <sup>2</sup>	-	-	-	113.73	-	113.73	32,697.00	-	3,718,631.44	-	3,718,631.44	New Item
XII.13.	Exterior painting up to Elv. +3.50m up to Elv. +10.75 m	m <sup>2</sup>	-	-	-	211.21	-	211.21	41,520.00	-	8,769,561.68	-	8,769,561.68	New Item
XII.13.	Interior painting up to Elv. +3.50m	m <sup>2</sup>	-	-	-	201.89	-	201.89	29,625.00	-	5,981,104.57	-	5,981,104.57	New Item
XII.13.	Interior painting up to Elv. +3.50m UP TO Elv. +10.75 m	m <sup>2</sup>	-	-	-	374.95	-	374.95	34,630.00	-	12,984,368.73	-	12,984,368.73	New Item
XII.13.	Gypsum ceiling painting Up to Elv. 3.50 m	m <sup>2</sup>	-	-	-	-	-	-	-	-	-	-	-	
XII.13.	Cement fibre ceiling painting Elv. +3.50 m up to Elv. +10.75m	m <sup>2</sup>	-	-	-	303.87	-	303.87	20,401.00	-	6,199,251.87	-	6,199,251.87	New Item
XII.13.	Fascia painting	m <sup>2</sup>	-	-	-	11.62	-	11.62	42,887.00	-	498,432.71	-	4	

mor : KU.04.04-CL.11/94.7  
mpiran : 1 (satu) berkas

Semarang, 17 Februari 2014

pada Yth :

T. ADHI KARYA (Persero) Tbk –  
T. PEMBANGUNAN PERUMAHAN (Persero) JV  
L. GAYUNG KEBUNSARI NO.167  
URABAYA

perihal : Persetujuan Negosiasi Harga Satuan

Berikut ini menunjuk surat Saudara Nomor: 1830/AK-PP/JV/II/2014 tanggal 04 Februari 2014 perihal *quotation for floor standing AC for Pump Panel House*, Nomor: 321/AK-PP/JV/II/2014 tanggal 24 Januari 2014 perihal *quotation for removal and installing 3 box panel L3 of the pump house*, Nomor 1835/AK-PP/JV/II/2014 tanggal 05 Februari 2014 perihal *information of the total cost for embankment of river closure work* dan usulan Panitia Penelitian Pelaksanaan Kontrak Satker Pengembangan PLP Jawa Tengah nomor : PR.04.03-L.11/Pan-Pppk/Us-C1/18.4 tanggal 14 Februari 2014 tentang usulan perubahan kontrak, dengan ini kami sampaikan bahwa kami menyetujui pekerjaan tersebut sebagai berikut:

*Embankment without compaction*

Harga satuan penawaran penyedia jasa : Rp. 152.851,36 / m3  
Harga satuan hasil negosiasi : Rp. 109.126,95 / m3

*Mechanical and Electrical for storage*

a. Main MCCB 50AF

Harga satuan penawaran penyedia jasa : Rp. 696.696,00 / unit  
Harga satuan hasil negosiasi : Rp. 604.345,00 / unit

b. Branch MCB 6AF

Harga satuan penawaran penyedia jasa : Rp. 286.160,00 / unit  
Harga satuan hasil negosiasi : Rp. 189.892,50 / unit

c. Fitting lamp LS 610 Panasonic

Harga satuan penawaran penyedia jasa : Rp. 69.367,00 / unit  
Harga satuan hasil negosiasi : Rp. 68.485,05 / unit

d. Lighting Philip 42 Watt

Harga satuan penawaran penyedia jasa : Rp. 216.367,00 / unit  
Harga satuan hasil negosiasi : Rp. 152.485,05 / unit

e. Lighting 15 Watt

Harga satuan penawaran penyedia jasa : Rp. 73.063,00 / unit  
Harga satuan hasil negosiasi : Rp. 71.299,05 / unit

Switch 16A

Harga satuan penawaran penyedia jasa : Rp. 106.995,00 / unit

	Harga satuan hasil negosiasi	: Rp. 105.892,50 / unit	✓
a.	<i>Incoming JFC 10P</i>		
	Harga satuan penawaran penyedia jasa	: Rp. 7.910.490,00 / unit	
	Harga satuan hasil negosiasi	: Rp. 5.808.285,00 / unit	✓
b.	<i>Terminal B 10P</i>		
	Harga satuan penawaran penyedia jasa	: Rp. 2.915.892,00 / unit	
	Harga satuan hasil negosiasi	: Rp. 1.181.628,00 / unit	
c.	<i>Box Panel L-6</i>		
	Harga satuan penawaran penyedia jasa	: Rp. 3.703.392,00 / unit	
	Harga satuan hasil negosiasi	: Rp. 2.966.628,00 / unit	
d.	<i>Telephone set</i>		
	Harga satuan penawaran penyedia jasa	: Rp. 742.098,00 / unit	
	Harga satuan hasil negosiasi	: Rp. 531.657,00 / unit	✓
e.	<i>Box Panel PJU</i>		
	Harga satuan penawaran penyedia jasa	: Rp. 3.703.392,00 / unit	
	Harga satuan hasil negosiasi	: Rp. 2.966.628,00 / unit	
f.	<i>Installation for lighting</i>		
	Harga satuan penawaran penyedia jasa	: Rp. 654.456,00 / unit	
	Harga satuan hasil negosiasi	: Rp. 623.041,05 / unit	✓
g.	<i>Installation for socket outlet</i>		
	Harga satuan penawaran penyedia jasa	: Rp. 809.533,00 / unit	
	Harga satuan hasil negosiasi	: Rp. 672.236,05 / unit	

*Removal and install Box Panel L3 of Pump House*

a.	<i>Cable NYM 3 x 2,5 ( Supreme )</i>		
	Harga satuan penawaran penyedia jasa	: Rp. 37.044,00 / m	
	Harga satuan hasil negosiasi	: Rp. 37.044,00 / m	
b.	<i>Pipe Pvc "2 " Inch</i>		
	Harga satuan penawaran penyedia jasa	: Rp. 37.170,00 / m	
	Harga satuan hasil negosiasi	: Rp. 37.170,00 / m	
c.	<i>Knie Pvc "2 " Inch</i>		
	Harga satuan penawaran penyedia jasa	: Rp. 21.000,00 / pcs	
	Harga satuan hasil negosiasi	: Rp. 21.000,00 / pcs	✓
d.	<i>Duradoos 20 mm"</i>		
	Harga satuan penawaran penyedia jasa	: Rp. 11.200,00 / pcs	
	Harga satuan hasil negosiasi	: Rp. 11.200,00 / pcs	
e.	<i>Clamp Pipe</i>		
	Harga satuan penawaran penyedia jasa	: Rp. 4.200,00 / pcs	
	Harga satuan hasil negosiasi	: Rp. 4.200,00 / pcs	

f. *Aids Materials*

Harga satuan penawaran penyedia jasa : Rp. 70.000,00 / pcs  
Harga satuan hasil negosiasi : Rp. 70.000,00 / pcs

g. *Cost Removal & Install*

Harga satuan penawaran penyedia jasa : Rp. 280.000,00 / unit  
Harga satuan hasil negosiasi : Rp. 280.000,00 / unit ✓

h. *AC 5 PK Floor Standing (supply&install)*

Harga satuan penawaran penyedia jasa : Rp. 39.368.000,00 / unit  
Harga satuan hasil negosiasi : Rp. 32.251.275,00 / unit ✓

Demikian kami sampaikan, atas perhatiannya diucapkan terima kasih.



Tembusan disampaikan kepada yth :

Kepala Satker Pengembangan PLP Jawa Tengah (sebagai Laporan);  
Assisten Pelaksanaan Satuan Kerja PPLP Jawa Tengah;  
Bendaharawan Satuan Kerja PPLP Jawa Tengah;  
Panitia Peneliti Pelaksanaan Kontrak Package C1;  
Oriental Consultant Company Ltd.

PANITIA PENELITI PELAKSANAAN KONTRAK  
SATUAN KERJA PENGEMBANGAN PENYEHATAN LINGKUNGAN  
PERMUKIMAN JAWA TENGAH

Nomor : PR.04.03-CL.11/Pan-Pppk/Us-C1/18.4  
Jml berkas : 1 (satu) berkas

Semarang, 14 Februari 2014

Yth :  
abat Pembuat Komitmen Pengembangan  
astruktur PLP Metropolitan  
uan Kerja Pengembangan PLP Jawa Tengah

**M A R A N G**

hal : Usulan Perubahan Kontrak

Berikut ini menunjuk Kontrak Nomor : HK.02.03-CL.11/225 tanggal 26 November 2009, Amandemennya serta  
Acara Negosiasi Harga Satuan Nomor : PR.04.03-CL.11/ Pan-Pppk/Nego-C1/18.3 tanggal  
3 Februari 2014, maka bersama ini dengan hormat kami sampaikan usulan hasil negosiasi harga  
satuan, sebagai berikut :

*a. Embankment without compaction*

Harga satuan penawaran penyedia jasa : Rp. 152.851,36 / m3.

Harga satuan hasil negosiasi : Rp. 109.126,95 / m3

*b. Mechanical and Electrical for storage*

a. Main MCCB 50AF

Harga satuan penawaran penyedia jasa : Rp. 696.696,00 / unit

Harga satuan hasil negosiasi : Rp. 604.345,00 / unit

b. Branch MCB 6AF

Harga satuan penawaran penyedia jasa : Rp. 286.160,00 / unit

Harga satuan hasil negosiasi : Rp. 189.892,50 / unit

c. Fitting lamp LS 610 Panasonic

Harga satuan penawaran penyedia jasa : Rp. 69.367,00 / unit

Harga satuan hasil negosiasi : Rp. 68.485,05 / unit

d. Lighting Philip 42 Watt

Harga satuan penawaran penyedia jasa : Rp. 216.367,00 / unit

Harga satuan hasil negosiasi : Rp. 152.485,05 / unit

e. Lighting 15 Watt

Harga satuan penawaran penyedia jasa : Rp. 73.063,00 / unit

Harga satuan hasil negosiasi : Rp. 71.299,05 / unit

f. Switch 16A

Harga satuan penawaran penyedia jasa : Rp. 106.995,00 / unit

Harga satuan hasil negosiasi : Rp. 105.892,50 / unit

24

g. *Incoming JFC 10P*

Harga satuan penawaran penyedia jasa : Rp. 7.910.490,00 / unit  
Harga satuan hasil negosiasi : Rp. 5.808.285,00 / unit

h. *Terminal B 10P*

Harga satuan penawaran penyedia jasa : Rp. 2.915.892,00 / unit  
Harga satuan hasil negosiasi : Rp. 1.181.628,00 / unit

i. *Box Panel L-6*

Harga satuan penawaran penyedia jasa : Rp. 3.703.392,00 / unit  
Harga satuan hasil negosiasi : Rp. 2.966.628,00 / unit

j. *Telephone set*

Harga satuan penawaran penyedia jasa : Rp. 742.098,00 / unit  
Harga satuan hasil negosiasi : Rp. 531.657,00 / unit

k. *Box Panel PJU*

Harga satuan penawaran penyedia jasa : Rp. 3.703.392,00 / unit  
Harga satuan hasil negosiasi : Rp. 2.966.628,00 / unit

l. *Installation for lighting*

Harga satuan penawaran penyedia jasa : Rp. 654.456,00 / unit  
Harga satuan hasil negosiasi : Rp. 623.041,05 / unit

m. *Installation for socket outlet*

Harga satuan penawaran penyedia jasa : Rp. 809.533,00 / unit  
Harga satuan hasil negosiasi : Rp. 672.236,05 / unit

Removal and install Box Panel L3 of Pump House

a. *Câble NYM 3 x 2,5 ( Supreme )*

Harga satuan penawaran penyedia jasa : Rp. 37.044,00 / m  
Harga satuan hasil negosiasi : Rp. 37.044,00 / m

b. *Pipe Pvc "2 " Inch*

Harga satuan penawaran penyedia jasa : Rp. 37.170,00 / m  
Harga satuan hasil negosiasi : Rp. 37.170,00 / m

c. *Knie Pvc "2 " Inch*

Harga satuan penawaran penyedia jasa : Rp. 21.000,00 / pcs  
Harga satuan hasil negosiasi : Rp. 21.000,00 / pcs

d. *Duradoos 20 mm"*

Harga satuan penawaran penyedia jasa : Rp. 11.200,00 / pcs  
Harga satuan hasil negosiasi : Rp. 11.200,00 / pcs

e. *Clamp Pipe*

Harga satuan penawaran penyedia jasa : Rp. 4.200,00 / pcs

Harga satuan hasil negosiasi : Rp. 4.200,00 / pcs

f. *Aids Materials*

Harga satuan penawaran penyedia jasa : Rp. 70.000,00 / pcs

Harga satuan hasil negosiasi : Rp. 70.000,00 / pcs

g. *Cost Removal & Install*

Harga satuan penawaran penyedia jasa : Rp. 280.000,00 / unit

Harga satuan hasil negosiasi : Rp. 280.000,00 / unit

h. *AC 5 PK Floor Standing (supply&install)*

Harga satuan penawaran penyedia jasa : Rp. 39.368.000,00 / unit

Harga satuan hasil negosiasi : Rp. 32.251.275,00 / unit

Demikian kami sampaikan, atas perhatiannya diucapkan terima kasih.

Ketua Panitia  
Peneliti Pelaksanaan Kontrak,



Egi Yuniarto, ST.MT  
NIP.19800629 200812 1 001

TEMBUSAN disampaikan kepada yth :

1. Assisten Pelaksanaan Satuan Kerja PPLP Jawa Tengah
2. Bendaharawan Satuan Kerja PPLP Jawa Tengah
3. Arsip;

**BERITA ACARA PENELITIAN  
PELAKSANAAN KONTRAK**  
**Nomor : PR.04.03-CL.11/Pan-Pppk/Nego/18.3**  
**Tanggal : 13 Februari 2014**

Kontrak Nomor  
Media Jasa  
kerjaan  
asi  
emor Paket

- : HK.02.03-CL.11/225 TANGGAL 26 Nopember 2009  
: PT. ADHI KARYA (Persero) Tbk- PT. PEMBANGUNAN PERUMAHAN (Persero) JV  
: Semarang Pumping Station And Retarding Pond (Civil And Electrical Work)  
: KOTA SEMARANG  
: PACKAGE C1

Di hari ini, Kamis tanggal Tiga Belas bulan Februari tahun Dua ribu empat belas (13-02-2014), kami bertanda tangan di bawah ini Panitia Peneliti Pelaksanaan Kontrak yang dibentuk dengan Surat Cutusan Kepala Satuan Kerja Pengembangan Penyehatan Lingkungan permukiman Jawa Tengah nomor HK.01.22-CL.11/1.4 tanggal 02 Januari 2014 dengan disaksikan oleh Ir. SUROSO, selaku Project Manager PT. ADHI KARYA (Persero) Tbk- PT. PEMBANGUNAN PERUMAHAN (Persero) JV, telah selesaikan negosiasi harga satuan item pekerjaan baru dan amandemennya tersebut sebagai berikut:

**ATAS DASAR**

- a. Surat Perjanjian (Kontrak) No.HK.02.03-CL.11/225 tanggal 26 Nopember 2009;
- b. Surat Perintah Mulai Kerja No.KU.03.09-CL.11/4233.2 tanggal 09 Desember 2009;
- c. Amandemen ke-1 (kesatu) No. HK.02.03-CL.11/225/1 tanggal 10 Juni 2010;
- d. Amandemen ke-2 (kedua) No. HK.02.03-CL.11/225/2 tanggal 12 Juli 2010;
- e. Amandemen ke-3 (ketiga) No. HK.02.03-CL.11/225/3 tanggal 17 Januari 2011;
- f. Amandemen ke-4 (keempat) No. HK.02.03-CL.11/225/4 tanggal 08 Februari 2011;
- g. Amandemen ke-5 (kelima) No. HK.02.03-CL.11/225/5 tanggal 05 Mei 2011;
- h. Amandemen ke-6 (keenam) No. HK.02.03-CL.11/225/6 tanggal 08 Oktober 2011;
- i. Amandemen ke-7 (ketujuh) No. HK.02.03-CL.11/225/7 tanggal 01 Desember 2011;
- j. Amandemen ke-8 (kedelapan) No. HK.02.03-CL.11/225/8 tanggal 19 Juni 2012;
- k. Amandemen ke-9 (kesembilan) No. HK.02.03-CL.11/225/9 tanggal 27 Juni 2012;
- l. Amandemen ke-10 (kesepuluh) No. HK.02.03-CL.11/225/10 tanggal 07 Nopember 2012;
- m. Amandemen ke-11 (kesebelas) No. HK.02.03-CL.11/225/11 tanggal 04 Desember 2012;
- n. Amandemen ke-12 (kedua belas) No. HK.02.03-CL.11/225/12 tanggal 04 Maret 2013;
- o. Amandemen ke-13 (ketiga belas) No. HK.02.03-CL.11/225/13 tanggal 14 Maret 2013;
- p. Amandemen ke-14 (keempat belas) No. HK.02.03-CL.11/225/14 tanggal 12 Juni 2013;
- q. Amandemen ke-15 (kelima belas) No. HK.02.03-CL.11/225/15 tanggal 22 Juli 2013;
- r. Amandemen ke-16 (keenam belas) No. HK.02.03-CL.11/225/16 tanggal 04 Oktober 2013;
- s. Amandemen ke-17 (ketujuh belas) No. HK.02.03-CL.11/225/17 tanggal 29 Nopember 2013;
- t. Surat PT Adhi Karya – PP J.V Nomor 1821/AK-PP/JV/II/2014 tanggal 24 Januari 2014 perihal quotation for removal and installing the box panel L3 of the pump house;
- u. Surat PT Adhi Karya – PP J.V Nomor 1830/AK-PP/JV/II/2014 tanggal 04 Februari 2014 perihal submission of calculation quotation for floor standing AC for Pump Panel House;
- v. Surat team leader Oriental Consultant Nomor PNIRSSA-II/II/14/03 tanggal 04 Februari 2014 perihal unit rate analysis and engineering cost estimate of floor satnding AC.
- w. Surat PT Adhi Karya – PP J.V Nomor 1835/AK-PP/JV/II/2014 tanggal 05 Februari 2014 perihal information of the total cost for embankment of river closure work;
- x. Surat team leader Oriental Consultant Nomor OC- Semarang /C1/II/14/1562 tanggal 03 Februari

fa

2014 perihal *embankment for river closure work*.

Surat PT Adhi Karya – PP J.V Nomor 1841/AK-PP/JV/II/2014 tanggal 06 Februari 2014 perihal *quotation of mechanical and electrical works for storage building*;

Surat team leader Oriental Consultant Nomor PNIRSSA-II/II/14/04.1 tanggal 07 Februari 2014 perihal *unit rate analysis and engineering cost estimate of draft amendment 18*.

#### Penelitian Teknis

a. Kondisi Lapangan, bahwa :

- 1) Diperlukan pekerjaan *standing AC for Pump Panel House* adalah sebagai satu kegiatan untuk menjaga kesesuaian suhu peralatan yang ada di *Panel Hause*.
- 2) Bawa penyedia jasa PT. ADHI KARYA (Persero) Tbk- PT. PEMBANGUNAN PERUMAHAN (Persero) JV dipandang mampu melaksanakan kegiatan tersebut.

b. Dengan perubahan tambah kurang tersebut maka diperlukan negosiasi harga satuan.

#### Penelitian Administrasi

- a. Surat Perjanjian (Kontrak) No. HK.02.03-CL.11/225 tanggal 26 Nopember 2009 berikut Amendemen Kontrak Ke-1 s/d Ke-17.
- b. Data sesuai butir 1.a. s/d 7 tersebut diatas.

#### Kesimpulan

Atas dasar hal-hal tersebut di atas, dengan ini Panitia merekomendasikan Negosiasi Harga Satuan item pekerjaan tersebut di atas sebagai berikut :

#### *Embankment without compaction*

Harga satuan penawaran penyedia jasa	: Rp. 152.851,36 / m <sup>3</sup>
Harga satuan hasil negosiasi	: Rp. 109.126,95 / m <sup>3</sup>

#### *Mechanical and Electrical for storage*

##### a. Main MCCB 50AF

Harga satuan penawaran penyedia jasa	: Rp. 696.696,00 / unit
Harga satuan hasil negosiasi	: Rp. 604.345,00 / unit

##### b. Branch MCB 6AF

Harga satuan penawaran penyedia jasa	: Rp. 286.160,00 / unit
Harga satuan hasil negosiasi	: Rp. 189.892,50 / unit

##### c. Fitting lamp LS 610 Panasonic

Harga satuan penawaran penyedia jasa	: Rp. 69.367,00 / unit
Harga satuan hasil negosiasi	: Rp. 68.485,05 / unit

##### d. Lighting Philip 42 Watt

Harga satuan penawaran penyedia jasa	: Rp. 216.367,00 / unit
Harga satuan hasil negosiasi	: Rp. 152.485,05 / unit

##### e. Lighting 15 Watt

Harga satuan penawaran penyedia jasa	: Rp. 73.063,00 / unit
Harga satuan hasil negosiasi	: Rp. 71.299,05 / unit

##### f. Switch 16A

Harga satuan penawaran penyedia jasa	: Rp. 106.995,00 / unit
Harga satuan hasil negosiasi	: Rp. 105.892,50 / unit

<i>g. Incoming JFC 10P</i>	
Harga satuan penawaran penyedia jasa	: Rp. 7.910.490,00 / unit
Harga satuan hasil negosiasi	: Rp. 5.808.285,00 / unit
<i>h. Terminal B 10P</i>	
Harga satuan penawaran penyedia jasa	: Rp. 2.915.892,00 / unit
Harga satuan hasil negosiasi	: Rp. 1.181.628,00 / unit
<i>i. Box Panel L-6</i>	
Harga satuan penawaran penyedia jasa	: Rp. 3.703.392,00 / unit
Harga satuan hasil negosiasi	: Rp. 2.966.628,00 / unit
<i>j. Telephone set</i>	
Harga satuan penawaran penyedia jasa	: Rp. 742.098,00 / unit
Harga satuan hasil negosiasi	: Rp. 531.657,00 / unit
<i>k. Box Panel PJU</i>	
Harga satuan penawaran penyedia jasa	: Rp. 3.703.392,00 / unit
Harga satuan hasil negosiasi	: Rp. 2.966.628,00 / unit
<i>l. Installation for lighting</i>	
Harga satuan penawaran penyedia jasa	: Rp. 654.456,00 / unit
Harga satuan hasil negosiasi	: Rp. 623.041,05 / unit
<i>m. Installation for socket outlet</i>	
Harga satuan penawaran penyedia jasa	: Rp. 809.533,00 / unit
Harga satuan hasil negosiasi	: Rp. 672.236,05 / unit

*n. Removal and install Box Panel L3 of Pump House*

<i>a. Cable NYM 3 x 2,5 ( Supreme )</i>	
Harga satuan penawaran penyedia jasa	: Rp. 37.044,00 / m
Harga satuan hasil negosiasi	: Rp. 37.044,00 / m
<i>b. Pipe Pvc "2 " Inch</i>	
Harga satuan penawaran penyedia jasa	: Rp. 37.170,00 / m
Harga satuan hasil negosiasi	: Rp. 37.170,00 / m
<i>c. Knie Pvc "2 " Inch</i>	
Harga satuan penawaran penyedia jasa	: Rp. 21.000,00 / pcs
Harga satuan hasil negosiasi	: Rp. 21.000,00 / pcs
<i>d. Duradoos 20 mm"</i>	
Harga satuan penawaran penyedia jasa	: Rp. 11.200,00 / pcs
Harga satuan hasil negosiasi	: Rp. 11.200,00 / pcs
<i>e. Clamp Pipe</i>	
Harga satuan penawaran penyedia jasa	: Rp. 4.200,00 / pcs
Harga satuan hasil negosiasi	: Rp. 4.200,00 / pcs
<i>f. Aids Materials</i>	
Harga satuan penawaran penyedia jasa	: Rp. 70.000,00 / pcs
Harga satuan hasil negosiasi	: Rp. 70.000,00 / pcs
<i>g. Cost Removal &amp; Install</i>	
Harga satuan penawaran penyedia jasa	: Rp. 280.000,00 / unit
Harga satuan hasil negosiasi	: Rp. 280.000,00 / unit

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AC 5 PK Floor Standing (supply&install)

Harga satuan penawaran penyedia jasa : Rp. 39.368.000,00 / unit  
Harga satuan hasil negosiasi : Rp. 32.251.275,00 / unit

mikian Berita Acara dibuat dengan penuh rasa tanggung jawab untuk dapat dipergunakan bagaimana mestinya

Menyetujui :

PT. ADHI KARYA (Persero) Tbk- PT.  
PEMBANGUNAN PERUMAHAN (Persero) JV



Panitia Peneliti Pelaksanaan Kontrak :

- 1 Egi Yuniarto, ST.MT  
Ketua
- 2 Adithya Bayu Permana, ST  
Sekretaris
- 3 Larap Kemayan Estu,ST.  
Anggota
- 4 M Syukron fikri ST.MT  
Anggota
- 5 Subagyo, A.Md.  
Anggota

# NEGOSIASI HARGA SATUAN

: Package C1

Semarang Pumping Station and Reterding Pond  
(Civil and Architectural Work)

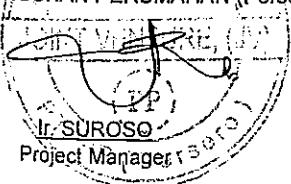
1. Removal and install Box Panel L3 of Pump House
2. Embankment without compaction
3. Mechanical and Electrical for Storage
4. Supply and Install Floor Standing Air Conditioner 5 PK

: Kota Semarang

Uraian	Unit	Harga Satuan	
		Penawaran	Negosiasi
Embankment without compaction	m3	Rp. 152.851,36	Rp. 109.126,95
Mechanical and Electrical for Storage			
Main MCCB 50AF	Unit	Rp. 696.696,00	Rp. 604.345,00
Branch MCB 6AF	Unit	Rp. 286.160,00	Rp. 189.892,50
Fitting lamp LS 610 Panasonic	Unit	Rp. 69.367,00	Rp. 68.485,05
Lighting Philip 42 Watt	Unit	Rp. 216.367,00	Rp. 152.485,05
Lighting 15 Watt	Unit	Rp. 73.063,00	Rp. 71.299,05
Switch 16A	Unit	Rp. 106.995,00	Rp. 105.892,50
Incoming JFC 10P	Unit	Rp. 7.910.490,00	Rp. 5.808.285,00
Terminal B 10P	Unit	Rp. 2.915.892,00	Rp. 1.181.628,00
Box Panel L-6	Unit	Rp. 3.703.392,00	Rp. 2.966.628,00
Telephone set	set	Rp. 742.098,00	Rp. 531.657,00
Box Panel PJU	Unit	Rp. 3.703.392,00	Rp. 2.966.628,00
Installation for lighting	Point	Rp. 654.456,00	Rp. 623.041,05
Installation for socket outlet	Point	Rp. 809.533,00	Rp. 672.236,05
Removal and install Box Panel L3 of Pump House			
Cable NYM 3 x 2,5 ( Supreme )	mtr	Rp. 37.044,00	Rp. 37.044,00
Pipe Pvc "2 " Inch	mtr	Rp. 37.170,00	Rp. 37.170,00
Knie Pvc "2 " Inch	Pcs	Rp. 21.000,00	Rp. 21.000,00
Duradoos 20 mm"	Pcs	Rp. 11.200,00	Rp. 11.200,00
Clamp Pipe	Pcs	Rp. 4.200,00	Rp. 4.200,00
Aids Materials	unit	Rp. 70.000,00	Rp. 70.000,00
Cost Removal & Install	unit	Rp. 280.000,00	Rp. 280.000,00
AC 5 PK Floor Standing (supply&install)	unit	Rp. 39.368.000,00	Rp. 32.251.275,00

Stuji:

PT ADHI KARYA (Persero) Tbk - PT.  
BANGUNAN PERUMAHAN (Persero)



Semarang, 13 Februari 2014  
Panitia Peneliti Pelaksanaan Kontrak :

1. Egi Yuniarto ST.MT
2. Adithya Bayu Permana, ST
3. Larap Kemayan Estu,ST.
4. M Syukron fikri ST.MT
5. Subagyo, A.Md.

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**REKAPITULASI  
HARGA PERHITUNGAN SENDIRI**

Work

: Package C1

Semarang Pumping Station and Retarding Pond  
(Civil and Architectural Work)

1. Removal and install Box Panel L3 of Pump House
2. Embankment without compaction
3. Mechanical and Electrical for Storage
4. Supply and Install Floor Standing Air Conditioner 5 PK

Location

: Kota Semarang

No	Uraian	Volume	Satuan	Harga Satuan	Keterangan
1	<b>Embankment without compaction</b>		m3	1.00	109,126.95
2	<b>Mechanical and Electrical for Storage</b>				
a	Main MCCB 50AF		Unit	1.00	604,345.00
b	Branch MCB 6AF		Unit	1.00	189,892.50
c	Fitting lamp LS 610 Panasonic		Unit	1.00	68,485.05
d	Lighting Philip 42 Watt		Unit	1.00	152,485.05
e	Lighting 15 Watt		Unit	1.00	71,299.05
f	Switch 16A		Unit	1.00	105,892.50
g	Incoming JFC 10P		Unit	1.00	5,808,285.00
h	Terminal B 10P		Unit	1.00	1,181,628.00
i	Box Panel L-6		Unit	1.00	2,966,628.00
j	Telephone set		set	1.00	531,657.00
k	Box Panel PJU		Unit	1.00	2,966,628.00
l	Installation for lighting		Point	1.00	623,041.05
m	Installation for socket outlet		Point	1.00	672,236.05
3	<b>Removal and install Box Panel L3 of Pump House</b>				
a	Cable NYM 3 x 2,5 ( Supreme )		mtr	1.00	37,044.00
b	Pipe Pvc "2" Inch		mtr	1.00	37,170.00
c	Knie Pvc "2" Inch		Pcs	1.00	21,000.00
d	Duradoos 20 mm"		Pcs	1.00	11,200.00
e	Clamp Pipe		Pcs	1.00	4,200.00
f	Aids Materials		unit	1.00	70,000.00
g	Cost Removal & Install		unit	1.00	280,000.00
4	<b>AC 5 PK Floor Standing (supply&amp;install)</b>		unit	1.00	32,251,275.00

MENGETAHUI/MENYETUJUI :  
PPK Pengembangan Infrastruktur PLP



Surabaya, Februari 2014

DISUSUN OLEH :

Panitia Peneliti Pelaksanaan Kontrak :

- 1 Egi Yuniaro ST.MT  
Ketua
- 2 Adithya Bayu Permana, ST  
Sekretaris
- 3 Larap Kemayan Estu, ST.  
Anggota
- 4 M Syukron fikri ST.MT  
Anggota
- 5 Subagyo, A.Md.  
Anggota

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### HARGA PERKIRAAN SENDIRI (HPS)

DESCRIPTION : Main MCCB 50AF  
 UNIT : 1,00 Unit  
 OF WORKS : Unit  
 HOURLY OUTPUT : 12,00 Unit/day  
 TION : KOTA SEMARANG

Uraian	Volume	Unit	Rate		Amount	
			Foreign	Local (Rp)	Foreign	Local (Rp)
<b>MATERIALS</b>						
Main MCCB 50AF Ex. Scheider	1,0000	Unit		565.000,00		565.000,00
<b>LABOURS</b>						
Labours	0,6667	Hour		7.000,00		4.666,67
Skill Labours	0,6667	Hour		8.000,00		5.333,33
Foreman	0,0667	Hour		8.500,00		566,67
<b>PLANT AND EQUIPMENT</b>						
<b>Sub Total</b>						575.566,67
<b>Overhead and profit</b>						28.778,33
<b>Total</b>						604.345,00
<b>Unit Price</b>						604.345,00

### HARGA PERKIRAAN SENDIRI (HPS)

DESCRIPTION : Branch MCB 6AF  
 UNIT : 8,00 Unit  
 OF WORKS : Unit  
 HOURLY OUTPUT : 8,00 Unit/day  
 TION : KOTA SEMARANG

Uraian	Volume	Unit	Rate		Amount	
			Foreign	Local (Rp)	Foreign	Local (Rp)
<b>MATERIALS</b>						
Branch MCB 6AF Ex. Scheider	1,0000	Unit		165.000,00		165.000,00
<b>LABOURS</b>						
Labours	1,0000	Hour		7.000,00		7.000,00
Skill Labours	1,0000	Hour		8.000,00		8.000,00
Foreman	0,1000	Hour		8.500,00		850,00
<b>PLANT AND EQUIPMENT</b>						
<b>Sub Total</b>						180.850,00
<b>Overhead and profit</b>						9.042,50
<b>Total</b>						189.892,50
<b>Unit Price</b>						189.892,50

### HARGA PERKIRAAN SENDIRI (HPS)

DESCRIPTION : Fitting lamp LS 610 Panasonic  
 UNIT : 16,00 Unit  
 OF WORKS : Unit  
 HOURLY OUTPUT : 10,00 Unit/day  
 VISION : KOTA SEMARANG

Uraian	Volume	Unit	Rate		Amount	
			Foreign	Local (Rp)	Foreign	Local (Rp)
<b>MATERIALS</b>						
Fitting lamp LS 610 Ex. Panasonic	1,0000	Unit		35.000,00		35.000,00
<b>LABOURS</b>						
Labours	0,8000	Hour		7.000,00		5.600,00
Skill Labours	0,8000	Hour		8.000,00		6.400,00
Foreman	0,0800	Hour		8.500,00		680,00
<b>PLANT AND EQUIPMENT</b>						
Rent Scafolding	0,3509	Set/month		50.000,00		17.543,86
<b>Sub Total</b>						
Overhead and profit						3.261,19
Total						68.485,05
Unit Price						68.485,05

### HARGA PERKIRAAN SENDIRI (HPS)

DESCRIPTION : Lighting Philip 42 Watt  
 UNIT : 15,00 Unit  
 OF WORKS : Unit  
 HOURLY OUTPUT : 10,00 Unit/day  
 VISION : KOTA SEMARANG

Uraian	Volume	Unit	Rate		Amount	
			Foreign	Local (Rp)	Foreign	Local (Rp)
<b>MATERIALS</b>						
Lighting 42 Watt Ex. Philips	1,0000	Unit		115.000,00		115.000,00
<b>LABOURS</b>						
Labours	0,8000	Hour		7.000,00		5.600,00
Skill Labours	0,8000	Hour		8.000,00		6.400,00
Foreman	0,0800	Hour		8.500,00		680,00
<b>PLANT AND EQUIPMENT</b>						
Rent Scafolding	0,3509	Set/month		50.000,00		17.543,86
<b>Sub Total</b>						
Overhead and profit						7.261,19
Total						152.485,05
Unit Price						152.485,05

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### HARGA PERKIRAAN SENDIRI (HPS)

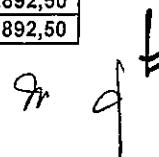
DESCRIPTION : Lighting 15 Watt  
 UNIT : 1,00 Unit  
 OF WORKS : Unit  
 HOURLY OUTPUT : 5,00 Unit/day  
 TION : KOTA SEMARANG

Uraian	Volume	Unit	Rate		Amount	
			Foreign	Local (Rp)	Foreign	Local (Rp)
<b>MATERIALS</b>						
Lighting 15 Watt Ex. Philips	1,0000	Unit		25.000,00		25.000,00
<b>LABOURS</b>						
Labours	1,6000	Hour		7.000,00		11.200,00
Skill Labours	1,6000	Hour		8.000,00		12.800,00
Foreman	0,1600	Hour		8.500,00		1.360,00
<b>PLANT AND EQUIPMENT</b>						
Rent Scafolding	0,3509	Set/month		50.000,00		17.543,86
<b>Sub Total</b>						
Overhead and profit						3.395,19
<b>Total</b>						71.299,05
<b>Unit Price</b>						71.299,05

### HARGA PERKIRAAN SENDIRI (HPS)

DESCRIPTION : Switch 16A  
 UNIT : 8,00 Unit  
 OF WORKS : Unit  
 HOURLY OUTPUT : 8,00 Unit/day  
 TION : KOTA SEMARANG

Uraian	Volume	Unit	Rate		Amount	
			Foreign	Local (Rp)	Foreign	Local (Rp)
<b>MATERIALS</b>						
Switch 16A Ex. Clipsal	1,0000	Unit		85.000,00		85.000,00
<b>LABOURS</b>						
Labours	1,0000	Hour		7.000,00		7.000,00
Skill Labours	1,0000	Hour		8.000,00		8.000,00
Foreman	0,1000	Hour		8.500,00		850,00
<b>PLANT AND EQUIPMENT</b>						
<b>Sub Total</b>						
Overhead and profit						5.042,50
<b>Total</b>						105.892,50
<b>Unit Price</b>						105.892,50


  
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### HARGA PERKIRAAN SENDIRI (HPS)

DESCRIPTION : Incoming JFC 10P  
 UNIT : 1,00 Unit  
 WORKS : Unit  
 DAILY OUTPUT : 4,00 Unit/day  
 ON : KOTA SEMARANG

Uraian	Volume	Unit	Rate		Amount	
			Foreign	Local (Rp)	Foreign	Local (Rp)
MATERIALS						
Incoming JFC 10P Ex. Panasonic	1,0000	Unit		5.500.000,00		5.500.000,00
LABOURS						
Labours	2,0000	Hour		7.000,00		14.000,00
Skill Labours	2,0000	Hour		8.000,00		16.000,00
Foreman	0,2000	Hour		8.500,00		1.700,00
PLANT AND EQUIPMENT						
Sub Total						5.531.700,00
Overhead and profit						276.585,00
Total						5.808.285,00
Unit Price						5.808.285,00

### HARGA PERKIRAAN SENDIRI (HPS)

DESCRIPTION : Terminal B 10P  
 UNIT : 3,00 Unit  
 WORKS : Unit  
 DAILY OUTPUT : 5,00 Unit/day  
 ON : KOTA SEMARANG

Uraian	Volume	Unit	Rate		Amount	
			Foreign	Local (Rp)	Foreign	Local (Rp)
MATERIALS						
Terminal B 10P	1,0000	Unit		1.100.000,00		1.100.000,00
LABOURS						
Labours	1,6000	Hour		7.000,00		11.200,00
Skill Labours	1,6000	Hour		8.000,00		12.800,00
Foreman	0,1600	Hour		8.500,00		1.360,00
PLANT AND EQUIPMENT						
Sub Total						1.125.360,00
Overhead and profit						56.268,00
Total						1.181.628,00
Unit Price						1.181.628,00

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### HARGA PERKIRAAN SENDIRI (HPS)

DESCRIPTION : Box Panel L-6  
 AMOUNT : 1,00 Unit  
 WORKS : Unit  
 DAILY OUTPUT : 5,00 Unit/day  
 ON : KOTA SEMARANG

Uraian	Volume	Unit	Rate		Amount	
			Foreign	Local (Rp)	Foreign	Local (Rp)
<b>MATERIALS</b>						
Box Panel L-6	1,0000	Unit		2.800.000,00		2.800.000,00
<b>LABOURS</b>						
Labours	1,6000	Hour		7.000,00		11.200,00
Skill Labours	1,6000	Hour		8.000,00		12.800,00
Foreman	0,1600	Hour		8.500,00		1.360,00
<b>PLANT AND EQUIPMENT</b>						
Sub Total						2.825.360,00
Overhead and profit						141.268,00
Total						2.966.628,00
Unit Price						2.966.628,00

### HARGA PERKIRAAN SENDIRI (HPS)

DESCRIPTION : Telephone set  
 AMOUNT : 1,00 set  
 WORKS : set  
 DAILY OUTPUT : 20,00 Unit/day  
 ON : KOTA SEMARANG

Uraian	Volume	Unit	Rate		Amount	
			Foreign	Local (Rp)	Foreign	Local (Rp)
<b>MATERIALS</b>						
Telephone set Ex. Panasonic	1,0000	set		500.000,00		500.000,00
<b>LABOURS</b>						
Labours	0,4000	Hour		7.000,00		2.800,00
Skill Labours	0,4000	Hour		8.000,00		3.200,00
Foreman	0,0400	Hour		8.500,00		340,00
<b>PLANT AND EQUIPMENT</b>						
Sub Total						506.340,00
Overhead and profit						25.317,00
Total						531.657,00
Unit Price						531.657,00

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### HARGA PERKIRAAN SENDIRI (HPS)

DESCRIPTION : Box Panel PJU  
 UNIT : 1,00 Unit  
 OF WORKS : Unit  
 HOURLY OUTPUT : 5,00 unit/day  
 VION : KOTA SEMARANG

Uraian	Volume	Unit	Rate		Amount	
			Foreign	Local (Rp)	Foreign	Local (Rp)
<b>MATERIALS</b>						
Box Panel PJU	1,0000	Unit		2.800.000,00		2.800.000,00
<b>LABOURS</b>						
Labours	1,6000	Hour		7.000,00		11.200,00
Skill Labours	1,6000	Hour		8.000,00		12.800,00
Foreman	0,1600	Hour		8.500,00		1.360,00
<b>PLANT AND EQUIPMENT</b>						
Sub Total						2.825.360,00
Overhead and profit						141.268,00
Total						2.966.628,00
Unit Price						2.966.628,00

### HARGA PERKIRAAN SENDIRI (HPS)

DESCRIPTION : Installation for lighting  
 UNIT : 16,00 Point  
 OF WORKS : Point  
 HOURLY OUTPUT : 0,44 Point/day  
 VION : KOTA SEMARANG

Uraian	Volume	Unit	Rate		Amount	
			Foreign	Local (Rp)	Foreign	Local (Rp)
<b>MATERIALS</b>						
Cable NYM 2 x 2.5mm Ex. Supreme	8,9688	Unit		24.000,00		215.250,00
Tee dos	1,0000	unit		9.500,00		9.500,00
Pvc pipe Ø 3/4"	5,0000	m		9.250,00		46.250,00
<b>LABOURS</b>						
Labours	18,2857	Hour		7.000,00		128.000,00
Skill Labours	18,2857	Hour		8.000,00		146.285,71
Foreman	1,8286	Hour		8.500,00		15.542,86
<b>PLANT AND EQUIPMENT</b>						
Rent Scafolding	0,3509	Set/month		50.000,00		17.543,86
Tools	1,0000	Ls		15.000,00		15.000,00
Sub Total						593.372,43
Overhead and profit						29.668,62
Total						623.041,05
Unit Price						623.041,05

### HARGA PERKIRAAN SENDIRI (HPS)

DESCRIPTION : Installation for socket outlet  
 UNIT : 9,00 Point  
 OF WORKS : Point  
 HOURLY OUTPUT : 1,56 Point/day  
 LOCATION : KOTA SEMARANG

Uraian	Volume	Unit	Rate		Amount	
			Foreign	Local (Rp)	Foreign	Local (Rp)
<b>MATERIALS</b>						
Cable NYM 2 x 2.5mm Ex. Supreme	15,9444	m		24.000,00		382.666,67
Socket outlet 16A Ex. Clipsal	1,0000	unit		70.000,00		70.000,00
Pvc pipe Ø 3/4"	8,0000	m		9.250,00		74.000,00
Inbow dos	1,0000	Unit		9.500,00		9.500,00
<b>LABOURS</b>						
Labours	5,1429	Hour		7.000,00		36.000,00
Skill Labours	5,1429	Hour		8.000,00		41.142,86
Foreman	0,5143	Hour		8.500,00		4.371,43
<b>PLANT AND EQUIPMENT</b>						
Rent Scafolding	0,3509	Set/month		50.000,00		17.543,86
Tools	1,0000	Ls		5.000,00		5.000,00
<b>Sub Total</b>						640.224,81
<b>Overhead and profit</b>						32.011,24
<b>Total</b>						672.236,05
<b>Unit Price</b>						672.236,05

### HARGA PERKIRAAN SENDIRI (HPS)

DESCRIPTION : Supply and Install Floor Standing Air Conditioner 5 PK  
 UNIT : 2,00 Unit  
 OF WORKS : Unit  
 HOURLY OUTPUT : 10,00 Unit/day  
 LOCATION : KOTA SEMARANG

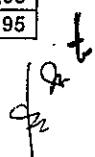
Uraian	Volume	Unit	Rate		Amount	
			Foreign	Local (Rp)	Foreign	Local (Rp)
<b>MATERIALS</b>						
Floor Standing Air Conditioner 5 PK E	1,0000	unit		28.500.000,00		28.500.000,00
Cabel NYM 3 x 4mm <sup>2</sup>	22,5000	m		30.000,00		675.000,00
MCB 40 A	1,0000	unit		234.000,00		234.000,00
Clamp For cable	1,5000	packs		21.000,00		31.500,00
Pipe 5/8 inch	2,0000	m'		150.000,00		300.000,00
Pipe 3/8 inch	2,0000	m'		150.000,00		300.000,00
Clamp Pipe	5,0000	Pcs		21.000,00		105.000,00
Breket For Outdoor unit	1,0000	Pcs		70.000,00		70.000,00
Exhaust Pipe Water	2,0000	Unit		15.000,00		30.000,00
<b>LABOURS</b>						
<b>PLANT AND EQUIPMENT</b>						
Tools	1,0000	Ls		5.000,00		5.000,00
Installation	1,0000	unit		465.000,00		465.000,00
<b>Sub Total</b>						30.715.500,00
<b>Overhead and profit</b>						1.535.775,00
<b>Total</b>						32.251.275,00
<b>Unit Price</b>						32.251.275,00

b-92

## HARGA PERKIRAAN SENDIRI (HPS)

: Embankment without compaction  
 : m<sup>3</sup>  
 : 20,23 m<sup>3</sup>/day  
 : KOTA SEMARANG

Uraian	Volume	Unit	Rate		Amount	
			Foreign	Local (Rp)	Foreign	Local (Rp)
<b>MATERIALS</b>						
Soil embankment	1,0500	unit		68.640,00		72.072,00
<b>LABOURS</b>						
Labour	-	Hour		7.000,00		-
Foreman	-	Hour		8.500,00		-
<b>PLANT AND EQUIPMENT</b>						
EXCAVATOR	0,0124	Hour		402.700,00		4.973,35
DUMP TRUCK	0,1145	Hour		173.000,00		19.806,69
VIBRO ROLLER		Hour		205.800,00		-
BULLDOZER	0,0281	Hour		251.900,00		7.078,39
WATER TANKER		Hour		116.100,00		-
<b>Sub Total</b>						103.930,43
<b>Overhead and profit</b>						5.196,52
<b>Total</b>						109.126,95
<b>Unit Price</b>						109.126,95


  
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# Oriental Consultants Company Limited

In association with

DN SUIDO CONSULTANTS Co., Ltd PT. INDAH KARYA (Persero) PT. REKA DESINDO MANDIRI  
NITEK KONSULTINDO PT. SILCON ADILARAS PT. ARKONIN ENGINEERING MANGGALA PRATAMA  
NSULTING SERVICES FOR COMPONENT C : URBAN DRAINAGE SYSTEM IMPROVEMENT  
IER SUPPLY WORKS FOR THE WESTERN AREA OF SEMARANG CITY (Under JICA Loan IP No. 534)  
Office Address : Jl. Kesehatan Raya No. 124 – Tanah Mas 50176 SEMARANG, CENTRAL JAVA  
Telp/Fax. 024 - 3566320

Semarang, February 7<sup>th</sup>, 2014  
Ref No.: PNIRSSA-II/II/14/04.1

Pengembangan Infrastruktur PLP Metropolitan  
Central Java Province  
Dipahmungkur Selatan No. 14-16  
Semarang

Mrs. Hotma Ulitua YS, ST.MT

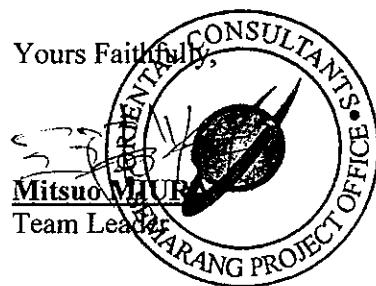
Object : Unit Rate Analysis and Engineering Cost Estimate of Draft of Amendment No. 18

Sir,

Engineer provides Unit Rate Analysis and Engineering Cost Estimate for Draft of Package C1  
Contract Amendment No. 18 for the purpose of negotiation by the Procurement Committee.

Unit Rate Analysis and Engineering Cost Estimates are attached herewith.

Thank you for attention and prompt decision.



Head of Satker P2LP Central Java  
Procurement Committee  
Mr. Ir. Mohamad Ali  
File

**ENGINEERING COST ESTIMATE AND UNIT PRICE ANALYSIS**  
**PACKAGE : \_\_\_\_\_**

PROJECT : URBAN DRAINAGE SYSTEM IMPROVEMENT AND WATER SUPPLY WORKS  
 WORK ITEM : XIII.9.Brick Masssonry 1 PC : 3 Sand up to El. + 3.500  
 UNIT : m<sup>2</sup>

NO	DESCRIPTION	CODE	UNIT	QUANTITY	UNIT COST	TOTAL COST
<b>A. LABOUR</b>						
1	Labour	LO.1	hours	2.1000	6,000.00	12,600.00
2	Skill Labour	LO.2	hours	1.0500	7,000.00	7,350.00
3	Forman	LO.4	hours	0.1050	7,500.00	787.50
<b>COST OF LABOUR</b>						20,737.50
<b>B. MATERIAL</b>						
1	Brick		each	70.0000	500.00	35,000.00
2	PC		kg	14.3700	1,250.00	17,962.50
3	Sand		m <sup>3</sup>	0.0400	120,000.00	4,800.00
<b>COST OF MATERIAL</b>						57,762.50
<b>C. EQUIPMENT</b>						
1	Rent Scafolding		ls	0.0210	50,000.00	1,050.00
<b>COST OF EQUIPMENT</b>						1,050.00
<b>D. OTHER</b>						
<b>COST OF OTHER</b>						-
E.	<b>TOTAL COST LABOUR, MATERIAL, EQUIPMENT, OTHER (A+B+C+D)</b>					79,550.00
F.	<b>OVER HEAD + PROFIT 10%</b>					7,955.00
G.	<b>UNIT COST OF WORK (E+F)</b>					87,505.00

**ENGINEERING COST ESTIMATE AND UNIT PRICE ANALYSIS-**  
**PACKAGE : \_\_\_\_\_**

PROJECT : URBAN DRAINAGE SYSTEM IMPROVEMENT AND WATER SUPPLY WORKS  
 WORK ITEM : Plastering 1 PC : 3 Sand up to + 3.500  
 UNIT : m<sup>2</sup>

NO	DESCRIPTION	CODE	UNIT	QUANTITY	UNIT COST	TOTAL COST
<b>A.</b>	<b>LABOUR</b>					
1	Labour	LO.1	hours	2.1000	6,000.00	12,600.00
2	Skill Labour	LO.2	hours	1.0500	7,000.00	7,350.00
3	Forman	LO.4	hours	0.1050	7,500.00	787.50
					<b>COST OF LABOUR</b>	20,737.50
<b>B.</b>	<b>MATERIAL</b>					
1	PC		kg	7.7760	1,250.00	9,720.00
2	Sand		m <sup>3</sup>	0.0230	120,000.00	2,760.00
					<b>COST OF MATERIAL</b>	12,480.00
<b>C.</b>	<b>EQUIPMENT</b>					
1	Scaffolding		ls	0.0210	50,000.00	1,050.00
					<b>COST OF EQUIPMENT</b>	1,050.00
<b>D.</b>	<b>OTHER</b>					
					<b>COST OF OTHER</b>	-
<b>E.</b>	<b>TOTAL COST LABOUR, MATERIAL, EQUIPMENT, OTHER (A+B+C+D)</b>					34,267.50
<b>F.</b>	<b>OVER HEAD + PROFIT 10%</b>					3,426.75
<b>G.</b>	<b>UNIT COST OF WORK (E+F)</b>					37,694.25

**ENGINEERING COST ESTIMATE AND UNIT PRICE ANALYSIS.**  
PACKAGE : \_\_\_\_\_

PROJECT : URBAN DRAINAGE SYSTEM IMPROVEMENT AND WATER SUPPLY WORKS  
 WORK ITEM : XIII.12 Hollow Concrete 20 x 40 cm  
 UNIT : NOS

NO	DESCRIPTION	CODE	UNIT	QUANTITY	UNIT COST	TOTAL COST
A.	<b>LABOUR</b>					
1	Labour	LO.1	hours	0.4300	6,000.00	2,580.00
2	Skill Labour	LO.2	hours	0.2150	7,000.00	1,505.00
3	Forman	LO.3	hours	0.0430	7,500.00	322.50
					<b>COST OF LABOUR</b>	4,407.50
B.	<b>MATERIAL</b>					
1	Hollow Concrete 20 x 40 cm		NOS	1.0000	20,750.00	20,750.00
					<b>COST OF MATERIAL</b>	20,750.00
C.	<b>EQUIPMENT</b>					
1	Scafolding			0.0667	50,000.00	3,335.00
					<b>COST OF EQUIPMENT</b>	3,335.00
D.	<b>OTHER</b>					
					<b>COST OF OTHER</b>	
E.	<b>TOTAL COST LABOUR, MATERIAL, EQUIPMENT, OTHER (A+B+C+D)</b>					28,492.50
F.	<b>OVER HEAD + PROFIT 10%</b>					2,849.25
G.	<b>UNIT COST OF WORK (E+F)</b>					31,341.75

**ENGINEERING COST ESTIMATE AND UNIT PRICE ANALYSIS**  
**PACKAGE : \_\_\_\_\_**

PROJECT : URBAN DRAINAGE SYSTEM IMPROVEMENT AND WATER SUPPLY WORKS  
 WORK ITEM : XIII.9.6 Cable Power for Lighting NYY 2 x 2 1/2 mm<sup>2</sup>  
 UNIT : point

NO	DESCRIPTION	CODE	UNIT	QUANTITY	UNIT COST	TOTAL COST
A.	<b>LABOUR</b>					
1	Labour	LO.1	hours	5.0000	6,000.00	30,000.00
2	Skill Labour	LO.2	hours	5.0000	7,000.00	35,000.00
3	Forman	LO.4	hours	0.5000	7,500.00	3,750.00
					<b>COST OF LABOUR</b>	68,750.00
B.	<b>MATERIAL</b>					
1	Cable NYM 2x2.5 mm <sup>2</sup>		m	9.0000	15,000.00	135,000.00
	Ex. Supreme					
2	Tee Dos		unit	1.0000	10,000.00	10,000.00
3	PVC Pipe 3/4"		m	5.0000	9,500.00	47,500.00
					<b>COST OF MATERIAL</b>	192,500.00
C.	<b>EQUIPMENT</b>					
					<b>COST OF EQUIPMENT</b>	-
D.	<b>OTHER</b>					
					<b>COST OF OTHER</b>	-
E.	<b>TOTAL COST LABOUR, MATERIAL, EQUIPMENT, OTHER (A+B+C+D)</b>					261,250.00
F.	<b>OVER HEAD + PROFIT 10%</b>					26,125.00
G.	<b>UNIT COST OF WORK (E+F)</b>					287,375.00

**ENGINEERING COST ESTIMATE AND UNIT PRICE ANALYSIS -  
PACKAGE : \_\_\_\_\_**

**PROJECT** : URBAN DRAINAGE SYSTEM IMPROVEMENT AND WATER SUPPLY WORKS  
**WORK ITEM** : XIII.9.7 Cable Power for Socket Outlet NYY 2 x 2 1/2 mm<sup>2</sup>  
**UNIT** : point

NO	DESCRIPTION	CODE	UNIT	QUANTITY	UNIT COST	TOTAL COST
A.	<b>LABOUR</b>					
1	Labour	LO.1	hours	5.0000	6,000.00	30,000.00
2	Skill Labour	LO.2	hours	5.0000	7,000.00	35,000.00
3	Forman	LO.4	hours	0.5000	7,500.00	3,750.00
					<b>COST OF LABOUR</b>	68,750.00
B.	<b>MATERIAL</b>					
1	Cable NYM 2x2.5 mm <sup>2</sup>		m	9.0000	15,000.00	135,000.00
	Ex. Supreme					
2	Inbow Dos		unit	1.0000	10,000.00	10,000.00
3	PVC Pipe 3/4"		m	5.0000	9,500.00	47,500.00
					<b>COST OF MATERIAL</b>	192,500.00
C.	<b>EQUIPMENT</b>					
					<b>COST OF EQUIPMENT</b>	-
D.	<b>OTHER</b>					
					<b>COST OF OTHER</b>	-
E.	<b>TOTAL COST LABOUR, MATERIAL, EQUIPMENT, OTHER (A+B+C+D)</b>					261,250.00
F.	<b>OVER HEAD + PROFIT 10%</b>					26,125.00
G.	<b>UNIT COST OF WORK (E+F)</b>					287,375.00

**ENGINEERING COST ESTIMATE AND UNIT PRICE ANALYSIS**  
**PACKAGE : \_\_\_\_\_**

PROJECT : URBAN DRAINAGE SYSTEM IMPROVEMENT AND WATER SUPPLY WORKS  
 WORK ITEM : XIII.9.8 Main MCCB 50 AF x 1  
 UNIT : point

NO	DESCRIPTION	CODE	UNIT	QUANTITY	UNIT COST	TOTAL COST
A.	<b>LABOUR</b>					
1	Labour	LO.1	hours	0.8400	6,000.00	5,040.00
2	Skill Labour	LO.2	hours	0.4200	7,000.00	2,940.00
3	Forman	LO.4	hours	0.0840	7,500.00	630.00
					<b>COST OF LABOUR</b>	8,610.00
B.	<b>MATERIAL</b>					
1	MCCB 50 AF x1		pcs	1.0000	175,000.00	175,000.00
					<b>COST OF MATERIAL</b>	175,000.00
C.	<b>EQUIPMENT</b>					
					<b>COST OF EQUIPMENT</b>	-
D.	<b>OTHER</b>					
					<b>COST OF OTHER</b>	-
E.	<b>TOTAL COST LABOUR, MATERIAL, EQUIPMENT, OTHER (A+B+C+D)</b>				183,610.00	
F.	<b>OVER HEAD + PROFIT 10%</b>				18,361.00	
G.	<b>UNIT COST OF WORK (E+F)</b>				201,971.00	

**ENGINEERING COST ESTIMATE AND UNIT PRICE ANALYSIS**  
**PACKAGE : \_\_\_\_\_**

PROJECT : URBAN DRAINAGE SYSTEM IMPROVEMENT AND WATER SUPPLY WORKS  
 WORK ITEM : XIII.9.9 MCB 25 AF  
 UNIT : point

NO	DESCRIPTION	CODE	UNIT	QUANTITY	UNIT COST	TOTAL COST
A.	<b>LABOUR</b>					
1	Labour	LO.1	hours	0.8400	6,000.00	5,040.00
2	Skill Labour	LO.2	hours	0.4200	7,000.00	2,940.00
3	Forman	LO.4	hours	0.0840	7,500.00	630.00
					<b>COST OF LABOUR</b>	<b>8,610.00</b>
B.	<b>MATERIAL</b>					
1	MCB 25 AF		pcs	1.0000	150,000.00	150,000.00
					<b>COST OF MATERIAL</b>	<b>150,000.00</b>
C.	<b>EQUIPMENT</b>					
					<b>COST OF EQUIPMENT</b>	<b>-</b>
D.	<b>OTHER</b>					
					<b>COST OF OTHER</b>	<b>-</b>
E.	<b>TOTAL COST LABOUR, MATERIAL, EQUIPMENT, OTHER (A+B+C+D)</b>					<b>158,610.00</b>
F.	<b>OVER HEAD + PROFIT 10%</b>					<b>15,861.00</b>
G.	<b>UNIT COST OF WORK (E+F)</b>					<b>174,471.00</b>

**ENGINEERING COST ESTIMATE AND UNIT PRICE ANALYSIS-  
PACKAGE : \_\_\_\_\_**

**PROJECT** : URBAN DRAINAGE SYSTEM IMPROVEMENT AND WATER SUPPLY WORKS  
**WORK ITEM** : XIII.9.1 Installation of Cable for Storage 4 x 10 mm<sup>2</sup>  
**UNIT** : point

NO	DESCRIPTION	CODE	UNIT	QUANTITY	UNIT COST	TOTAL COST
<b>A.</b>	<b>LABOUR</b>					
1	Labour	LO.1	hours	3.2000	6,000.00	19,200.00
2	Skill Labour	LO.2	hours	1.6000	7,000.00	11,200.00
3	Forman	LO.4	hours	0.3200	7,500.00	2,400.00
<b>COST OF LABOUR</b>						32,800.00
<b>B.</b>	<b>MATERIAL</b>					
1	Cable NYM 2x2.5 mm		pcs	9.0000	20,000.00	180,000.00
	ex. Supreme					
2	Tee Doss		Unit	1.0000	10,000.00	10,000.00
3	PVC Pipe φ 3/4"		m	4.5000	9,500.00	42,750.00
<b>COST OF MATERIAL</b>						232,750.00
<b>C.</b>	<b>EQUIPMENT</b>					
1	Rent Scafolding		Set/month	0.0667	50,000.00	3,335.00
<b>COST OF EQUIPMENT</b>						3,335.00
<b>D.</b>	<b>OTHER</b>					
<b>COST OF OTHER</b>						
<b>E.</b>	<b>TOTAL COST LABOUR, MATERIAL, EQUIPMENT, OTHER (A+B+C+D)</b>					268,885.00
<b>F.</b>	<b>OVER HEAD + PROFIT 10%</b>					26,888.50
<b>G.</b>	<b>UNIT COST OF WORK (E+F)</b>					295,773.50

**ENGINEERING COST ESTIMATE AND UNIT PRICE ANALYSIS  
PACKAGE : \_\_\_\_\_**

**PROJECT** : URBAN DRAINAGE SYSTEM IMPROVEMENT AND WATER SUPPLY WORKS  
**WORK ITEM** : XIII.9.1 Installation of Cable for Storage 4 x 10 mm<sup>2</sup>  
**UNIT** : point

NO	DESCRIPTION	CODE	UNIT	QUANTITY	UNIT COST	TOTAL COST
<b>A.</b>	<b>LABOUR</b>					
1	Labour	LO.1	hours	3.2000	6,000.00	19,200.00
2	Skill Labour	LO.2	hours	1.6000	7,000.00	11,200.00
3	Forman	LO.4	hours	0.3200	7,500.00	2,400.00
<b>COST OF LABOUR</b>						<b>32,800.00</b>
<b>B.</b>	<b>MATERIAL</b>					
1	Cable NYM 2x2.5 mm		pcs	9.0000	20,000.00	180,000.00
	ex. Supreme					-
2	Tee Doss		Unit	1.0000	10,000.00	10,000.00
3	PVC Pipe φ 3/4"		m	4.5000	9,500.00	42,750.00
<b>COST OF MATERIAL</b>						<b>232,750.00</b>
<b>C.</b>	<b>EQUIPMENT</b>					
1	Rent Scafolding		Set/month	0.0667	50,000.00	3,335.00
						-
						-
						-
						-
<b>COST OF EQUIPMENT</b>						<b>3,335.00</b>
<b>D.</b>	<b>OTHER</b>					
						-
						-
						-
						-
<b>COST OF OTHER</b>						<b>-</b>
<b>E.</b>	<b>TOTAL COST LABOUR, MATERIAL, EQUIPMENT, OTHER (A+B+C+D)</b>					<b>268,885.00</b>
<b>F.</b>	<b>OVER HEAD + PROFIT 10%</b>					<b>26,888.50</b>
<b>G.</b>	<b>UNIT COST OF WORK (E+F)</b>					<b>295,773.50</b>

**ENGINEERING COST ESTIMATE AND UNIT PRICE ANALYSIS -**  
**PACKAGE : \_\_\_\_\_**

**PROJECT** : URBAN DRAINAGE SYSTEM IMPROVEMENT AND WATER SUPPLY WORKS  
**WORK ITEM** : XIII.9.4 Switch 16 A  
**UNIT** : pcs

NO	DESCRIPTION	CODE	UNIT	QUANTITY	UNIT COST	TOTAL COST
A.	<b>LABOUR</b>					
1	Labour	LO.1	hours	0.3200	6,000.00	1,920.00
2	Skill Labour	LO.2	hours	0.1600	7,000.00	1,120.00
3	Forman	LO.4	hours	0.0320	7,500.00	240.00
					<b>COST OF LABOUR</b>	3,280.00
B.	<b>MATERIAL</b>					
1	Switch		pcs	1.0000	30,000.00	30,000.00
					<b>COST OF MATERIAL</b>	30,000.00
C.	<b>EQUIPMENT</b>					
					<b>COST OF EQUIPMENT</b>	-
D.	<b>OTHER</b>					
					<b>COST OF OTHER</b>	-
E.	<b>TOTAL COST LABOUR, MATERIAL, EQUIPMENT, OTHER (A+B+C+D)</b>					33,280.00
F.	<b>OVER HEAD + PROFIT 10%</b>					3,328.00
G.	<b>UNIT COST OF WORK (E+F)</b>					36,608.00

**ENGINEERING COST ESTIMATE AND UNIT PRICE ANALYSIS -  
PACKAGE : \_\_\_\_\_**

**PROJECT** : URBAN DRAINAGE SYSTEM IMPROVEMENT AND WATER SUPPLY WORKS  
**WORK ITEM** : XIII.9.5 Socket Outlet  
**UNIT** : pcs

NO	DESCRIPTION	CODE	UNIT	QUANTITY	UNIT COST	TOTAL COST
<b>A.</b>	<b>LABOUR</b>					
1	Labour	LO.1	hours	0.3200	6,000.00	1,920.00
2	Skill Labour	LO.2	hours	0.1600	7,000.00	1,120.00
3	Forman	LO.4	hours	0.0320	7,500.00	240.00
<b>COST OF LABOUR</b>						3,280.00
<b>B.</b>	<b>MATERIAL</b>					
1	Socket Outlet		pcs	1.0000	30,000.00	30,000.00
<b>COST OF MATERIAL</b>						30,000.00
<b>C.</b>	<b>EQUIPMENT</b>					
<b>COST OF EQUIPMENT</b>						-
<b>D.</b>	<b>OTHER</b>					
<b>COST OF OTHER</b>						-
<b>TOTAL COST LABOUR, MATERIAL, EQUIPMENT, OTHER (A+B+C+D)</b>						33,280.00
<b>OVER HEAD + PROFIT 10%</b>						3,328.00
<b>UNIT COST OF WORK (E+F)</b>						36,608.00

**ENGINEERING COST ESTIMATE AND UNIT PRICE ANALYSIS-**  
**PACKAGE : \_\_\_\_\_**

PROJECT : URBAN DRAINAGE SYSTEM IMPROVEMENT AND WATER SUPPLY WORKS  
 WORK ITEM : XIII.1.4 Supply and Install Steel Door 1.5 x 2.1 m  
 UNIT : m<sup>2</sup>

NO	DESCRIPTION	CODE	UNIT	QUANTITY	UNIT COST	TOTAL COST
A.	<b>LABOUR</b>					
1	Labour	LO.1	hours	9.6000	6,000.00	57,600.00
2	Skill Labour	LO.2	hours	9.6000	7,000.00	67,200.00
3	Forman	LO.4	hours	0.0060	7,500.00	45.00
					<b>COST OF LABOUR</b>	<b>124,845.00</b>
B.	<b>MATERIAL</b>					
1	Steel Door 1.5 x 2.1 m		m <sup>2</sup>	1.0000	807,170.00	807,170.00
					<b>COST OF MATERIAL</b>	<b>807,170.00</b>
C.	<b>EQUIPMENT</b>					
1	Tool		ls	1.0000	5,000.00	5,000.00
					<b>COST OF EQUIPMENT</b>	<b>5,000.00</b>
D.	<b>OTHER</b>					
					<b>COST OF OTHER</b>	<b>-</b>
E.	<b>TOTAL COST LABOUR, MATERIAL, EQUIPMENT, OTHER (A+B+C+D)</b>					<b>937,015.00</b>
F.	<b>OVER HEAD + PROFIT 10%</b>					<b>93,701.50</b>
G.	<b>UNIT COST OF WORK (E+F)</b>					<b>1,030,716.50</b>

**ENGINEERING COST ESTIMATE AND UNIT PRICE ANALYSIS -  
PACKAGE : \_\_\_\_\_**

**PROJECT** : URBAN DRAINAGE SYSTEM IMPROVEMENT AND WATER SUPPLY WORKS  
**WORK ITEM** : XIII.1.5 Supply and Install Steel Door 3.00 x 2.10 m  
**UNIT** : m<sup>2</sup>

NO	DESCRIPTION	CODE	UNIT	QUANTITY	UNIT COST	TOTAL COST
<b>A.</b>	<b>LABOUR</b>					
1	Labour	LO.1	hours	9.6000	6,000.00	57,600.00
2	Skill Labour	LO.2	hours	9.6000	7,000.00	67,200.00
3	Forman	LO.4	hours	0.0060	7,500.00	45.00
					<b>COST OF LABOUR</b>	124,845.00
<b>B.</b>	<b>MATERIAL</b>					
1	Steel Door		m <sup>2</sup>	1.0000	807,170.00	807,170.00
					<b>COST OF MATERIAL</b>	807,170.00
<b>C.</b>	<b>EQUIPMENT</b>					
1	Tool		ls	1.0000	5,000.00	5,000.00
					<b>COST OF EQUIPMENT</b>	5,000.00
<b>D.</b>	<b>OTHER</b>					
					<b>COST OF OTHER</b>	-
<b>E.</b>	<b>TOTAL COST LABOUR, MATERIAL, EQUIPMENT, OTHER (A+B+C+D)</b>					937,015.00
<b>F.</b>	<b>OVER HEAD + PROFIT 10%</b>					93,701.50
<b>G.</b>	<b>UNIT COST OF WORK (E+F)</b>					1,030,716.50

**ENGINEERING COST ESTIMATE AND UNIT PRICE ANALYSIS-  
PACKAGE : \_\_\_\_\_**

**PROJECT** : URBAN DRAINAGE SYSTEM IMPROVEMENT AND WATER SUPPLY WORKS  
**WORK ITEM** : XIII.9.1 Lamp SL Tornado Philip 42 W / 220 V  
**UNIT** : pcs

NO	DESCRIPTION	CODE	UNIT	QUANTITY	UNIT COST	TOTAL COST
<b>A.</b>	<b>LABOUR</b>					
1	Labour	LO.1	hours	0.4150	6,000.00	2,490.00
2	Skill Labour	LO.2	hours	0.2075	7,000.00	1,452.50
3	Forman	LO.4	hours	0.0415	7,500.00	311.25
					<b>COST OF LABOUR</b>	4,253.75
<b>B.</b>	<b>MATERIAL</b>					
1	Lamp SL Tornado		pcs	1.0000	85,000.00	85,000.00
	Philip 42 W / 220 V					
					<b>COST OF MATERIAL</b>	85,000.00
<b>C.</b>	<b>EQUIPMENT</b>					
1	Scafolding		ls	0.0667	50,000.00	3,335.00
					<b>COST OF EQUIPMENT</b>	3,335.00
<b>D.</b>	<b>OTHER</b>					
					<b>COST OF OTHER</b>	-
<b>E.</b>	<b>TOTAL COST LABOUR, MATERIAL, EQUIMENT, OTHER (A+B+C+D)</b>					92,588.75
<b>F.</b>	<b>OVER HEAD + PROFIT 10%</b>					9,258.88
<b>G.</b>	<b>UNIT COST OF WORK (E+F)</b>					101,847.63

**ENGINEERING COST ESTIMATE AND UNIT PRICE ANALYSIS**  
**PACKAGE : \_\_\_\_\_**

PROJECT : URBAN DRAINAGE SYSTEM IMPROVEMENT AND WATER SUPPLY WORKS  
 WORK ITEM : XIII.9.2 Lamp SL Tornado Philip 15 W / 220 V  
 UNIT : pcs

NO	DESCRIPTION	CODE	UNIT	QUANTITY	UNIT COST	TOTAL COST
<b>A.</b>	<b>LABOUR</b>					
1	Labour	LO.1	hours	0.4150	6,000.00	2,490.00
2	Skill Labour	LO.2	hours	0.2075	7,000.00	1,452.50
3	Forman	LO.4	hours	0.0415	7,500.00	311.25
					<b>COST OF LABOUR</b>	<b>4,253.75</b>
<b>B.</b>	<b>MATERIAL</b>					
1	Lamp SL Tornado		pcs	1.0000	55,000.00	55,000.00
	Philip 15 W / 220 V					
					<b>COST OF MATERIAL</b>	<b>55,000.00</b>
<b>C.</b>	<b>EQUIPMENT</b>					
1	Scafolding		ls	0.0667	50,000.00	3,335.00
					<b>COST OF EQUIPMENT</b>	<b>3,335.00</b>
<b>D.</b>	<b>OTHER</b>					
					<b>COST OF OTHER</b>	<b>-</b>
<b>E.</b>	<b>TOTAL COST LABOUR, MATERIAL, EQUIMENT, OTHER (A+B+C+D)</b>					<b>62,588.75</b>
<b>F.</b>	<b>OVER HEAD + PROFIT 10%</b>					<b>6,258.88</b>
<b>G.</b>	<b>UNIT COST OF WORK (E+F)</b>					<b>68,847.63</b>

**ENGINEERING COST ESTIMATE AND UNIT PRICE ANALYSIS-**  
**PACKAGE : \_\_\_\_\_**

PROJECT : URBAN DRAINAGE SYSTEM IMPROVEMENT AND WATER SUPPLY WORKS  
 WORK ITEM : VI.2' Garden Lights 125 Watt Globe Series, Ballast Include  
 UNIT : pcs

NO	DESCRIPTION	CODE	UNIT	QUANTITY	UNIT COST	TOTAL COST
A.	<b>LABOUR</b>					
1	Labour	LO.1	hours	2.2000	6,000.00	13,200.00
2	Skill Labour	LO.2	hours	1.1000	7,000.00	7,700.00
3	Forman	LO.4	hours	0.2200	7,500.00	1,650.00
					<b>COST OF LABOUR</b>	- 22,550.00
B.	<b>MATERIAL</b>					
1	Garden Lights 125 Watt		pcs	1.0000	1,575,000.00	1,575,000.00
	Globe Series					
					<b>COST OF MATERIAL</b>	- 1,575,000.00
C.	<b>EQUIPMENT</b>					
					<b>COST OF EQUIPMENT</b>	-
D.	<b>OTHER</b>					
					<b>COST OF OTHER</b>	-
E.	<b>TOTAL COST LABOUR, MATERIAL, EQUIPMENT, OTHER (A+B+C+D)</b>					1,597,550.00
F.	<b>OVER HEAD + PROFIT 10%</b>					159,755.00
G.	<b>UNIT COST OF WORK (E+F)</b>					1,757,305.00

**ENGINEERING COST ESTIMATE AND UNIT PRICE ANALYSIS -  
PACKAGE : \_\_\_\_\_**

PROJECT : URBAN DRAINAGE SYSTEM IMPROVEMENT AND WATER SUPPLY WORKS  
 WORK ITEM : VI.2<sup>1</sup> Cable NYA 4x2,5 mm<sup>2</sup>  
 UNIT : m<sup>1</sup>

NO	DESCRIPTION	CODE	UNIT	QUANTITY	UNIT COST	TOTAL COST
A.	<b>LABOUR</b>					
1	Labour	LO.1	hours	0.2000	6,000.00	1,200.00
2	Skill Labour	LO.2	hours	0.1000	7,000.00	700.00
3	Forman	LO.4	hours	0.0200	7,500.00	150.00
					<b>COST OF LABOUR</b>	- 2,050.00
B.	<b>MATERIAL</b>					
1	Cable NYA 4x2,5 mm <sup>2</sup>		m <sup>1</sup>	1.2000	30,000.00	36,000.00
					<b>COST OF MATERIAL</b>	36,000.00
C.	<b>EQUIPMENT</b>					
					<b>COST OF EQUIPMENT</b>	-
D.	<b>OTHER</b>					
					<b>COST OF OTHER</b>	-
E.	<b>TOTAL COST LABOUR, MATERIAL, EQUIPMENT, OTHER (A+B+C+D)</b>					38,050.00
F.	<b>OVER HEAD + PROFIT 10%</b>					3,805.00
G.	<b>UNIT COST OF WORK (E+F)</b>					41,855.00

**ENGINEERING COST ESTIMATE AND UNIT PRICE ANALYSIS**  
**PACKAGE : \_\_\_\_\_**

PROJECT : URBAN DRAINAGE SYSTEM IMPROVEMENT AND WATER SUPPLY WORKS  
 WORK ITEM : Box Panel Instrument  
 UNIT : pcs

NO	DESCRIPTION	CODE	UNIT	QUANTITY	UNIT COST	TOTAL COST
A.	<b>LABOUR</b>					
1	Labour	LO.1	hours	2.2000	6,000.00	13,200.00
2	Skill Labour	LO.2	hours	1.1000	7,000.00	7,700.00
3	Forman	LO.4	hours	0.2200	7,500.00	1,650.00
					<b>COST OF LABOUR</b>	<b>- 22,550.00</b>
B.	<b>MATERIAL</b>					
1	Box Panel Instrument		pcs	1.0000	1,500,000.00	1,500,000.00
					<b>COST OF MATERIAL</b>	<b>1,500,000.00</b>
C.	<b>EQUIPMENT</b>					
					<b>COST OF EQUIPMENT</b>	<b>-</b>
D.	<b>OTHER</b>					
					<b>COST OF OTHER</b>	<b>-</b>
E.	<b>TOTAL COST LABOUR, MATERIAL, EQUIPMENT, OTHER (A+B+C+D)</b>					<b>1,522,550.00</b>
F.	<b>OVER HEAD + PROFIT 10%</b>					<b>152,255.00</b>
G.	<b>UNIT COST OF WORK (E+F)</b>					<b>1,674,805.00</b>

**ENGINEERING COST ESTIMATE AND UNIT PRICE ANALYSIS**  
**PACKAGE : \_\_\_\_\_**

**PROJECT** : URBAN DRAINAGE SYSTEM IMPROVEMENT AND WATER SUPPLY WORKS  
**WORK ITEM** : Supply and Install MCB 16 A  
**UNIT** : pcs

NO	DESCRIPTION	CODE	UNIT	QUANTITY	UNIT COST	TOTAL COST
A.	<b>LABOUR</b>					
1	Labour	LO.1	hours	0.3000	6,000.00	1,800.00
2	Skill Labour	LO.2	hours	0.1500	7,000.00	1,050.00
3	Forman	LO.4	hours	0.0300	7,500.00	225.00
					<b>COST OF LABOUR</b>	<b>- 3,075.00</b>
B.	<b>MATERIAL</b>					
1	MCB 16 A		pcs	1.0000	80,000.00	80,000.00
					<b>COST OF MATERIAL</b>	<b>80,000.00</b>
C.	<b>EQUIPMENT</b>					
					<b>COST OF EQUIPMENT</b>	<b>-</b>
D.	<b>OTHER</b>					
					<b>COST OF OTHER</b>	<b>-</b>
E.	<b>TOTAL COST LABOUR, MATERIAL, EQUIPMENT, OTHER (A+B+C+D)</b>					<b>83,075.00</b>
F.	<b>OVER HEAD + PROFIT 10%</b>					<b>8,307.50</b>
G.	<b>UNIT COST OF WORK (E+F)</b>					<b>91,382.50</b>

**ENGINEERING COST ESTIMATE AND UNIT PRICE ANALYSIS-**  
**PACKAGE : \_\_\_\_\_**

PROJECT : URBAN DRAINAGE SYSTEM IMPROVEMENT AND WATER SUPPLY WORKS  
 WORK ITEM : Supply and Install MCB 6 A  
 UNIT : pcs

NO	DESCRIPTION	CODE	UNIT	QUANTITY	UNIT COST	TOTAL COST
A.	<b>LABOUR</b>					
1	Labour	LO.1	hours	0.3000	6,000.00	1,800.00
2	Skill Labour	LO.2	hours	0.1500	7,000.00	1,050.00
3	Forman	LO.4	hours	0.0300	7,500.00	225.00
					<b>COST OF LABOUR</b>	- 3,075.00
B.	<b>MATERIAL</b>					
1	MCB 6 A		pcs	1.0000	65,000.00	65,000.00
					<b>COST OF MATERIAL</b>	- 65,000.00
C.	<b>EQUIPMENT</b>					
					<b>COST OF EQUIPMENT</b>	-
D.	<b>OTHER</b>					
					<b>COST OF OTHER</b>	-
E.	<b>TOTAL COST LABOUR, MATERIAL, EQUIPMENT, OTHER (A+B+C+D)</b>					68,075.00
F.	<b>OVER HEAD + PROFIT 10%</b>					6,807.50
G.	<b>UNIT COST OF WORK (E+F)</b>					74,882.50

**ENGINEERING COST ESTIMATE AND UNIT PRICE ANALYSIS-**  
**PACKAGE : \_\_\_\_\_**

PROJECT : URBAN DRAINAGE SYSTEM IMPROVEMENT AND WATER SUPPLY WORKS  
 WORK ITEM : PVC Pipe Dia 1/2" for Covering L = 4 meters  
 UNIT : pcs

NO	DESCRIPTION	CODE	UNIT	QUANTITY	UNIT COST	TOTAL COST
A.	<b>LABOUR</b>					
1	Labour	LO.1	hours	0.0833	6,000.00	499.80
2	Skill Labour	LO.2	hours	0.0417	7,000.00	291.90
3	Forman	LO.4	hours	0.0083	7,500.00	62.25
					<b>COST OF LABOUR</b>	853.95
B.	<b>MATERIAL</b>					
1	PVC Pipe Dia 1/2"		pcs	1.0000	23,000.00	23,000.00
	L = 4 meters					
					<b>COST OF MATERIAL</b>	23,000.00
C.	<b>EQUIPMENT</b>					
					<b>COST OF EQUIPMENT</b>	-
D.	<b>OTHER</b>					
					<b>COST OF OTHER</b>	-
E.	<b>TOTAL COST LABOUR, MATERIAL, EQUIPMENT, OTHER (A+B+C+D)</b>				<b>23,853.95</b>	
F.	<b>OVER HEAD + PROFIT 10%</b>				<b>2,385.40</b>	
G.	<b>UNIT COST OF WORK (E+F)</b>				<b>26,239.35</b>	

# **ENGINEERING COST ESTIMATE AND UNIT PRICE ANALYSIS - PACKAGE :**

**PROJECT** : URBAN DRAINAGE SYSTEM IMPROVEMENT AND WATER SUPPLY WORKS  
**WORK ITEM** : Cable NYM 2x2,5 mm<sup>2</sup>  
**UNIT** : m<sup>1</sup>

**ENGINEERING COST ESTIMATE AND UNIT PRICE ANALYSIS-**  
**PACKAGE : \_\_\_\_\_**

PROJECT : URBAN DRAINAGE SYSTEM IMPROVEMENT AND WATER SUPPLY WORKS  
 WORK ITEM : VI.2' Photo Cell (Sell Con) Automatic Switch on/off  
 UNIT : pcs

NO	DESCRIPTION	CODE	UNIT	QUANTITY	UNIT COST	TOTAL COST
A.	<b>LABOUR</b>					
1	Labour	LO.1	hours	1.2000	6,000.00	7,200.00
2	Skill Labour	LO.2	hours	1.2000	7,000.00	8,400.00
3	Forman	LO.4	hours	0.1200	7,500.00	900.00
					<b>COST OF LABOUR</b>	<b>- 16,500.00</b>
B.	<b>MATERIAL</b>					
1	Photo Cell (Sell Con)		pcs	1.0000	100,000.00	100,000.00
	Automatic Switch on/off					
					<b>COST OF MATERIAL</b>	<b>100,000.00</b>
C.	<b>EQUIPMENT</b>					
1	Tool		ls	1.0000	5,000.00	5,000.00
					<b>COST OF EQUIPMENT</b>	<b>5,000.00</b>
D.	<b>OTHER</b>					
					<b>COST OF OTHER</b>	<b>-</b>
E.	<b>TOTAL COST LABOUR, MATERIAL, EQUIPMENT, OTHER (A+B+C+D)</b>					<b>121,500.00</b>
F.	<b>OVER HEAD + PROFIT 10%</b>					<b>12,150.00</b>
G.	<b>UNIT COST OF WORK (E+F)</b>					<b>133,650.00</b>

## **ENGINEERING COST ESTIMATE AND UNIT PRICE ANALYSIS - PACKAGE :**

**PROJECT** : URBAN DRAINAGE SYSTEM IMPROVEMENT AND WATER SUPPLY WORKS  
**WORK ITEM** : XIII.17 Sealent  
**UNIT** : m<sup>3</sup>

**ENGINEERING COST ESTIMATE AND UNIT PRICE ANALYSIS**

PACKAGE : \_\_\_\_\_

**PROJECT** : URBAN DRAINAGE SYSTEM IMPROVEMENT AND WATER SUPPLY WORKS  
**WORK ITEM** : XIII.1.4 Steel Plate (Grill)  
**UNIT** : kg

NO	DESCRIPTION	CODE	UNIT	QUANTITY	UNIT COST	TOTAL COST
<b>A.</b>	<b>LABOUR</b>					
1	Labour	LO.1	hours	0.4500	6,000.00	2,700.00
2	Skill Labour	LO.2	hours	0.2250	7,000.00	1,575.00
3	Forman	LO.4	hours	0.0450	7,500.00	337.50
					<b>COST OF LABOUR</b>	- 4,612.50
<b>B.</b>	<b>MATERIAL</b>					
1	Steel Plate		kg	1.1000	13,500.00	14,850.00
					<b>COST OF MATERIAL</b>	14,850.00
<b>C.</b>	<b>EQUIPMENT</b>					
					<b>COST OF EQUIPMENT</b>	-
<b>D.</b>	<b>OTHER</b>					
					<b>COST OF OTHER</b>	-
<b>E.</b>	<b>TOTAL COST LABOUR, MATERIAL, EQUIPMENT, OTHER (A+B+C+D)</b>					19,462.50
<b>F.</b>	<b>OVER HEAD + PROFIT 10%</b>					1,946.25
<b>G.</b>	<b>UNIT COST OF WORK (E+F)</b>					21,408.75

# ENGINEERING COST ESTIMATE AND UNIT PRICE ANALYSIS

PACKAGE : \_\_\_\_\_

**PROJECT** : URBAN DRAINAGE SYSTEM IMPROVEMENT AND WATER SUPPLY WORKS  
**WORK ITEM** : XIII.9.6 Steel C Channel C 81.045 (Zincalum)  
**UNIT** : m<sup>1</sup>

NO	DESCRIPTION	CODE	UNIT	QUANTITY	UNIT COST	TOTAL COST
<b>A.</b>	<b>LABOUR</b>					
1	Labour	LO.1	hours	0.4000	6,000.00	2,400.00
2	Skill Labour	LO.2	hours	0.4000	7,000.00	2,800.00
3	Forman	LO.4	hours	0.0400	7,500.00	300.00
					<b>COST OF LABOUR -</b>	<b>5,500.00</b>
<b>B.</b>	<b>MATERIAL</b>					
1	Steel C Channel		m <sup>1</sup>	1.0000	75,000.00	75,000.00
	C 81.045 (Zincalum)					
					<b>COST OF MATERIAL</b>	<b>75,000.00</b>
<b>C.</b>	<b>EQUIPMENT</b>					
					<b>COST OF EQUIPMENT</b>	-
<b>D.</b>	<b>OTHER</b>					
					<b>COST OF OTHER</b>	-
<b>E.</b>	<b>TOTAL COST LABOUR, MATERIAL, EQUIPMENT, OTHER (A+B+C+D)</b>					80,500.00
<b>F.</b>	<b>OVER HEAD + PROFIT 10%</b>					8,050.00
<b>G.</b>	<b>UNIT COST OF WORK (E+F)</b>					88,550.00

**ENGINEERING COST ESTIMATE AND UNIT PRICE ANALYSIS**  
**PACKAGE : \_\_\_\_\_**

PROJECT : URBAN DRAINAGE SYSTEM IMPROVEMENT AND WATER SUPPLY WORKS  
 WORK ITEM : XIII.9.5 Steel Pipe Galvanized  $\phi 3"$  for Canopy  
 UNIT : kg

NO	DESCRIPTION	CODE	UNIT	QUANTITY	UNIT COST	TOTAL COST
A.	<b>LABOUR</b>					
1	Labour	LO.1	hours	0.4500	6,000.00	2,700.00
2	Skill Labour	LO.2	hours	0.2250	7,000.00	1,575.00
3	Forman	LO.4	hours	0.0450	7,500.00	337.50
					<b>COST OF LABOUR</b>	4,612.50
B.	<b>MATERIAL</b>					
1	Steel Pipe Galvanized		kg	1.1000	35,000.00	38,500.00
	$\phi 3"$ for Canopy					
					<b>COST OF MATERIAL</b>	38,500.00
C.	<b>EQUIPMENT</b>					
					<b>COST OF EQUIPMENT</b>	-
D.	<b>OTHER</b>					
					<b>COST OF OTHER</b>	-
E.	<b>TOTAL COST LABOUR, MATERIAL, EQUIPMENT, OTHER (A+B+C+D)</b>	<b>43,112.50</b>				
F.	<b>OVER HEAD + PROFIT 10%</b>	<b>4,311.25</b>				
G.	<b>UNIT COST OF WORK (E+F)</b>	<b>47,423.75</b>				

**ENGINEERING COST ESTIMATE AND UNIT PRICE ANALYSIS**  
**PACKAGE : \_\_\_\_\_**

PROJECT : URBAN DRAINAGE SYSTEM IMPROVEMENT AND WATER SUPPLY WORKS  
 WORK ITEM : Steel Cover  
 UNIT : kg

NO	DESCRIPTION	CODE	UNIT	QUANTITY	UNIT COST	TOTAL COST
A.	<b>LABOUR</b>					
1	Labour	LO.1	hours	0.4500	6,000.00	2,700.00
2	Skill Labour	LO.2	hours	0.2250	7,000.00	1,575.00
3	Forman	LO.4	hours	0.0450	7,500.00	337.50
					<b>COST OF LABOUR</b>	4,612.50
B.	<b>MATERIAL</b>					
1	Pipe Galvanized		kg	1.1000	13,500.00	14,850.00
					<b>COST OF MATERIAL</b>	14,850.00
C.	<b>EQUIPMENT</b>					
					<b>COST OF EQUIPMENT</b>	-
D.	<b>OTHER</b>					
					<b>COST OF OTHER</b>	-
E.	<b>TOTAL COST LABOUR, MATERIAL, EQUIPMENT, OTHER (A+B+C+D)</b>					19,462.50
F.	<b>OVER HEAD + PROFIT 10%</b>					1,946.25
G.	<b>UNIT COST OF WORK (E+F)</b>					21,408.75

# ENGINEERING COST ESTIMATE AND UNIT PRICE ANALYSIS

PACKAGE : \_\_\_\_\_

PROJECT : URBAN DRAINAGE SYSTEM IMPROVEMENT AND WATER SUPPLY WORKS  
 WORK ITEM : XII.15 Sand Filling  
 UNIT : m<sup>3</sup>

NO	DESCRIPTION	CODE	UNIT	QUANTITY	UNIT COST	TOTAL COST
A.	LABOUR					
1	Labour	LO.1	hours	1.2000	6,000.00	7,200.00
2	Skill Labour	LO.2	hours	0.6000	7,000.00	4,200.00
3	Forman	LO.4	hours	0.1200	7,500.00	900.00
					COST OF LABOUR	12,300.00
B.	MATERIAL					
1	Sand		m <sup>3</sup>	1.1000	125,000.00	137,500.00
					COST OF MATERIAL	137,500.00
C.	EQUIPMENT					
1	Baby Roller		hours	0.0500	20,000.00	1,000.00
					COST OF EQUIPMENT	1,000.00
D.	OTHER					
					COST OF OTHER	-
E.	TOTAL COST LABOUR, MATERIAL, EQUIPMENT, OTHER (A+B+C+D)					150,800.00
F.	OVER HEAD + PROFIT 10%					15,080.00
G.	UNIT COST OF WORK (E+F)					165,880.00

# **ENGINEERING COST ESTIMATE AND UNIT PRICE ANALYSIS**

**PACKAGE : \_\_\_\_\_**

PROJECT : URBAN DRAINAGE SYSTEM IMPROVEMENT AND WATER SUPPLY WORKS  
WORK ITEM : VI.I Weep Hole  
UNIT : NO

**ENGINEERING COST ESTIMATE AND UNIT PRICE ANALYSIS**  
**PACKAGE : \_\_\_\_\_**

PROJECT : URBAN DRAINAGE SYSTEM IMPROVEMENT AND WATER SUPPLY WORKS  
 WORK ITEM : VI.17 Cover Pipe Downspot 4" (Galvanis) for Pump House  
 UNIT : NO

NO	DESCRIPTION	CODE	UNIT	QUANTITY	UNIT COST	TOTAL COST
<b>A.</b>	<b>LABOUR</b>					
1	Labour	LO.1	hours	0.5000	6,000.00	3,000.00
2	Skill Labour	LO.2	hours	0.2500	7,000.00	1,750.00
3	Forman	LO.4	hours	0.0500	7,500.00	375.00
					<b>COST OF LABOUR</b>	<b>5,125.00</b>
<b>B.</b>	<b>MATERIAL</b>					
1	Pipe Downspot 4"		m	1.0000	300,000.00	300,000.00
	(Galvanis)					
					<b>COST OF MATERIAL</b>	<b>300,000.00</b>
<b>C.</b>	<b>EQUIPMENT</b>					
1	Scaffolding		ls	0.0667	50,000.00	3,335.00
					<b>COST OF EQUIPMENT</b>	<b>3,335.00</b>
<b>D.</b>	<b>OTHER</b>					
					<b>COST OF OTHER</b>	<b>-</b>
<b>E.</b>	<b>TOTAL COST LABOUR, MATERIAL, EQUIPMENT, OTHER (A+B+C+D)</b>					<b>308,460.00</b>
<b>F.</b>	<b>OVER HEAD + PROFIT 10%</b>					<b>30,846.00</b>
<b>G.</b>	<b>UNIT COST OF WORK (E+F)</b>					<b>339,306.00</b>

**LEMBAR DISPOSISI  
SATUAN KERJA  
HATAN LINGKUNGAN PERMUKIMAN JAWA TENGAH  
TAHUN ANGGARAN 2014**



# Oriental Consultants Company Limited

In association with

NIHON SUIDO CONSULTANTS Co., Ltd PT. INDAH KARYA (Persero) PT. REKA DESINDO MANDIRI  
PT. SANITEK KONSULTINDO PT. SILCON ADILARAS PT. ARKONIN ENGINEERING MANGGALA PRATAMA  
CONSULTING SERVICES FOR COMPONENT C : URBAN DRAINAGE SYSTEM IMPROVEMENT  
AND WATER SUPPLY WORKS FOR THE WESTERN AREA OF SEMARANG CITY (Under JICA Loan IP No. 534)  
Project Office Address : Jl. Kesehatan Raya No. 124 – Tanah Mas 50176 SEMARANG, CENTRAL JAVA  
Telp/Fax. 024 - 3566320

Date: Semarang, February 3<sup>rd</sup>, 2014  
Ref: No. OC-Semarang/C1/II/14/1562

To:

PT. ADHI KARYA – PT. PP Joint Venture (JV)

Attn: **Mr. Ir. Suroso**

Cc: Mr. Verry Hermawan, ST

Mr. Wawan Eko Rianto, ST

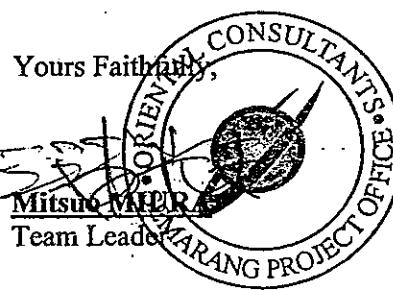
Subject: **Embankment for River Closure Works**

Dear Sir,

The Engineer agrees the proposal of the Contractor referring your letter No. 1827/AK-PP/JV/I/2014, dated February 3<sup>rd</sup>, 2014.

The Contractor is requested to negotiate the new price with the Employer and include the cost in the next amendment of the contract.

Thank you for your good cooperation.



Cc:

1. Head of Satker P2LP Central Java
2. PPK Pengembangan Infrastruktur PLP Metropolitan
3. Mr. Ir. Mohamad Ali
4. File

# ENGINEERING COST ESTIMATE

## UNIT PRICE

Project  
Work Item

- : Urban Drainage System Improvement and Water Supply Works
- : Embankment Without Compaction for River Closure Works
- : m<sup>3</sup>

	Description	Unit	Quantity	Unit Cost	Total Cost
<b>LABOURS</b>					
1	Labour	Hour	0,1483	4.500,00	667,35
2	Foreman	Hour	0,0148	5.500,00	81,40
3					
<b>MATERIALS</b>					
1	Soil embankment	m <sup>3</sup>	1,2000	68.640,00	82.368,00
2					
3					
<b>EQUIPMENT</b>					
1	Excavator	Hour	-	-	-
2	Dump Truck	Hour	-	-	-
3	Vibro Roller	Hour	-	-	-
4	Bulldozer	Hour	0,0281	251.900,00	7.078,39
5	Water Tanker	Hour	0,0100	116.100,00	1.161,00
					Subtotal
					91.356,14
Profit + overhead					4.567,81
					<b>TOTAL</b>
					<b>95.923,95</b>

# ENGINEERING COST ESTIMATE

## UNIT PRICE

- : Urban Drainage System Improvement and Water Supply Works  
 : Embankment with Compaction for River Closure Works  
 : m<sup>3</sup>

Description	Unit	Quantity	Unit Cost	Total Cost
<b>LABOURS</b>				
1 Labour	Hour	0,1483	4.500,00	667,35
2 Foreman	Hour	0,0148	5.500,00	81,40
<b>MATERIALS</b>				
1 Soil embankment	m <sup>3</sup>	1,2000	68.640,00	82.368,00
2				
3				
<b>EQUIPMENT</b>				
1 Excavator	Hour	-	-	-
2 Dump Truck	Hour	-	-	-
3 Vibro Roller	Hour	0,0141	205.800,00	2.901,78
4 Bulldozer	Hour	0,0281	251.900,00	7.078,39
5 Water Tanker	Hour	0,0100	116.100,00	1.161,00
Subtotal				94.257,92
Profit + overhead				4.712,90
<b>TOTAL</b>				<b>98.970,82</b>

# ENGINEERING COST ESTIMATE

## UNIT PRICE

- Project : Urban Drainage System Improvement and Water Supply Works  
 Item : Temporary Embankment for Coverdam without Compaction for River Closure Works  
 Unit : m3

Description	Unit	Quantity	Unit Cost	Total Cost
<b>LABOURS</b>				
1 Labour	Hour	-	-	-
2 Operator	Hour	-	-	-
3 Foreman	Hour	-	-	-
<b>MATERIALS</b>				
1 Soil embankment	m3	1,0500	68.640,00	72.072,00
2				
3				
<b>EQUIPMENT</b>				
1 Excavator	Hour	-	-	-
2 Dump Truck	Hour	-	-	-
3 Vibro Roller	Hour	-	-	-
4 Bulldozer	Hour	0,0141	251.900,00	3.551,79
5				
Subtotal				75.623,79
Profit + overhead				3.781,19
<b>TOTAL</b>				<b>79.404,98</b>

**ENGINEERING COST ESTIMATE**  
**UNIT PRICE**

Project

Item

- : Urban Drainage System Improvement and Water Supply Works
- : Temporary Embankment for Coverdam with Compaction for River Closure Works
- : m3

Description	Unit	Quantity	Unit Cost	Total Cost
<b>LABOURS</b>				
1 Labour	Hour	-	-	-
2 Operator	Hour	-	-	-
3 Foreman	Hour	-	-	-
<b>MATERIALS</b>				
1 Soil embankment	m3	1,0500	68.640,00	72.072,00
2				
3				
<b>EQUIPMENT</b>				
1 Excavator	Hour	-	-	-
2 Dump Truck	Hour	-	-	-
3 Vibro Roller	Hour	0,0047	205.800,00	967,26
4 Bulldozer	Hour	0,0141	251.900,00	3.551,79
5				
Subtotal				76.591,05
Profit + overhead				3.829,55
<b>TOTAL</b>				<b>80.420,60</b>



## JOINT VENTURE, (JV)

Jl. Gayung Kebonsari No. 167A, Surabaya 60231 Tlp. 62-31 8287251, 8291671, Fax. 62-31 829071  
 Jl. Pemuda No. 82 Semarang 50133 Tlp. 62-24 3547455, 3547456, Fax. 62-24 3551911

No : 1835/AK-PP/JV/II/2014  
 Enclosure : 4 sheets

Semarang, 5 February 2014

To : ORIENTAL CONSULTANTS Co. Ltd.  
 Attn : Mr. Mitsuo Miura  
 CC : PPK Pengembangan Infrastruktur Metropolitan - SATKER PPLP Jawa Tengah  
 Mr. Sugang, ME  
 Mr. Mohamad Ali  
 Archive

**Subject : Information of the Total Cost for Embankment of River Closure Works**

Dear Sir,

Base on the meeting between Employer, Consultant and the Contractor that occurred on Tuesday dated February 4<sup>th</sup>, 2014, we would like to submit Quotation of Embankment of River Closure Works with detail quantities as follows :

No	Description	Qty (m3)	Unit Rate (Rp)	Total Amount (Rp)	Remark
1	1. Semarang River Closure				
1.1	Embankment	3,750.00			
1.1.1	Embankment with compaction(35 %)	1,312.50	112,197.05	147,258,630.75	contract unbalance price
1.1.2	Embankment without compaction (65%)	2,437.50	152,851.36	372,575,190.00	new price
1.2	Temporary Cofferdam	2,307.12			
1.2.1	Temporary Cofferdam with compaction(35%)	807.49	112,013.00	90,449,601.40	contract price add.18
1.2.2	Embankment without compaction (65%)	1,499.63	111,046.71	166,528,755.62	new price
2	Baru River Closure				
2.1	Embankment	1,348.27			
2.1.1	Embankment with compaction(35 %)	471.89	112,197.05	52,945,171.76	contract unbalance price
2.1.2	Embankment without compaction (65%)	306.73	152,851.36	46,884,315.47	new price

Please find enclose about the price analysis of the price of Embankment.

Dealing matter above we look forward about for your information of as soon as possible.

Thank you for attention and good cooperation.

Best Regards,  
 TADRIAPP JOINT VENTURE, (JV)

JOINT VENTURE, (JV)

Surso  
 Project Manager

05/02/14

Nuswie A.

**APPENDIX 1**  
**UNIT RATE ANALYSIS FOR PAY ITEMS**

NAME OF BIDDER : PT. ADHI KARYA (Persero) Tbk. -  
 PT. PEMBANGUNAN PERUMAHAN (Persero), JV.

ITEM NUMBER :  
 DESCRIPTION OF WORK : Embankment without compaction  
 UNIT OF WORK : m3  
 QUANTITY OF WORK : m3  
 DAILY/HOURLY OUTPUT : 20.23 m3/hour

NO	DESCRIPTION	UNIT	QUANTITY	UNIT COST		AMOUNT	
				Foreign	Local	Foreign	Local
I.	<b>MATERIALS</b> 1. Soil embankment	m3	1.2000		68,640.00		82,368.00
II.	<b>LABOURS</b> 1. Labour 2. Foreman	Hour	0.1483		4,500.00		667.35
		Hour	0.0148		5,500.00		81.40
III.	<b>PLANT AND EQUIPMENT</b> 1. EXCAVATOR 2. DUMP TRUCK 3. VIBRO ROLLER 4. BULLDOZER 5. WATER TANKER	Hour	0.0494		402,700.00		19,893.38
		Hour	0.1984		173,000.00		34,323.20
		Hour	-		205,800.00		-
		Hour	0.0281		251,900.00		7,078.39
		Hour	0.0100		116,100.00		1,161.00
IV.	<b>SUB TOTAL</b>						145,572.72
V.	<b>TOTAL PRICE</b>						7,278.64
VI.	<b>UNIT PRICE</b>						152,851.36
							152,851.36

152,851.36 = Unit price Embankment (m3) = 152,851.36 / 1.2000 = 127,376,-

**APPENDIX 1**  
**UNIT RATE ANALYSIS FOR PAY ITEMS**

NAME OF BIDDER : PT. ADHI KARYA (Persero) Tbk -  
 PT. PENBANGUNAN PERUMAHAN (Persero), JV.

ITEM NUMBER :  
 DESCRIPTION OF WORK : Embankment  
 UNIT OF WORK : m3  
 QUANTITY OF WORK : m3  
 DAILY/HOURLY OUTPUT : 20.23 m3/hour

NO	DESCRIPTION	UNIT	QUANTITY	UNIT COST		AMOUNT	
				Foreign	Local	Foreign	Local
I.	<b>MATERIALS</b> 1 Soil embankment	m3	1.2000		68,640.00		82,368.00
II.	<b>LABOURS</b> 1 Labour 2 Foreman	Hour	0.1483		4,500.00		667.35
		Hour	0.0148		5,500.00		81.40
III.	<b>PLANT AND EQUIPMENT</b> 1 EXCAVATOR 2 DUMP TRUCK 3 VIBRO ROLLER 4 BULLDOZER 5 WATER TANKER	Hour	0.0494		402,700.00		19,893.38
		Hour	0.1984		173,000.00		34,323.20
		Hour	0.0141		205,800.00		2,901.78
		Hour	0.0281		251,900.00		7,078.39
		Hour	0.0100		116,100.00		1,161.00
				<b>SUB TOTAL</b>			148,474.50
IV.	<b>OVERHEAD AND PROFIT</b>						7,423.73
V.	<b>TOTAL PRICE</b>						155,898.23
VI.	<b>UNIT PRICE</b>						155,898.23

3

**APPENDIX 1**  
**UNIT RATE ANALYSIS FOR PAY ITEMS**

NAME OF BIDDER : PT. ADHI KARYA (Persero) Tbk -  
 PT. PENGANGUNAN PERUMAHAN (Persero), JV.

ITEM NUMBER :  
 DESCRIPTION OF WORK : Temporary Embankment for Coverdam without Compaction  
 UNIT OF WORK : m3  
 QUANTITY OF WORK : m3  
 AILY/HOURLY OUTPUT : 20.23 m3/hour

NO	DESCRIPTION	UNIT	QUANTITY	UNIT COST		AMOUNT	
				Foreign	Local	Foreign	Local
I.	<b>MATERIALS</b> 1. Soil embankment	m3	1.0500		68,640.00		72,072.00
II.	<b>LABOURS</b> 1 Labour 2 Operator 3 Foreman	Hour	-		-	-	-
III.	<b>PLANT AND EQUIPMENT</b> 1 EXCAVATOR 2 DUMP TRUCK 3 VIBRO ROLLER 4 BULLDOZER	Hour	0.0321	402,700.00		12,930.70	
		Hour	0.0992	173,000.00		17,161.60	
		Hour	-	205,800.00		-	
		Hour	0.0141	251,900.00		3,549.27	
<b>SUB TOTAL</b>							105,713.57
IV.	<b>OVERHEAD AND PROFIT</b>						5,285.68
V.	<b>TOTAL PRICE</b>						110,999.25
VI.	<b>UNIT PRICE</b>						110,999.00

**APPENDIX 1**  
**UNIT RATE ANALYSIS FOR PAY ITEMS**

**NAME OF BIDDER : PT. ADHI KARYA (Persero) Tbk. -  
PT. PENBANGUNAN PERUHUMAN (Persero), JV.**

ITEM NUMBER :  
DESCRIPTION OF WORK : Temporary Embankment for Coverdam  
UNIT OF WORK : m3  
QUANTITY OF WORK : m3  
DAILY/HOURLY OUTPUT : 20.23 m3/hour

NO	DESCRIPTION	UNIT	QUANTITY	UNIT COST		AMOUNT	
				Foreign	Local	Foreign	Local
I.	<b>MATERIALS</b> 1 Soil embankment		m3	1.0500		68,640.00	-
II.	<b>LABOURS</b> 1 Labour 2 Operator 3 Foreman		Hour	-	-	-	-
III.	<b>PLANT AND EQUIPMENT</b> 1 EXCAVATOR 2 DUMP TRUCK 3 VIBRO ROLLER 4 BULLDOZER		Hour	0.0321	402,700.00	12,930.70	
			Hour	0.0992	173,000.00	17,161.60	
			Hour	0.0047	205,800.00	966.29	
			Hour	0.0141	251,900.00	3,549.27	
IV.	<b>OVERHEAD AND PROFIT</b>				SUB TOTAL		106,679.86
V.	<b>TOTAL PRICE</b>						5,333.99
VI.	<b>UNIT PRICE</b>						112,013.85
							112,013.00

**LEMBAR DISPOSISI**  
**SATUAN KERJA**  
**PENGEMBANGAN PENYEHATAN LINGKUNGAN PERMUKIMAN JAWA TENGAH**  
**TAHUN ANGGARAN 2014**

: 04-02-2014		TANGGAL MENERIMA : 05-02-2014
: PNIRSSA-II/II/14/03		AGENDA NOMOR : 107
		KODE
: Unit rate analysis and engineering cost estimate		
AC		
:		
: OC		
DATA SAUDARA	URGENSI	PARAF & TANGGAL
TEKNIS PPLP		
INFRASTRUKTUR METRO	✓	✓
INFRASTRUKTUR PLP		
TKER		
GAN		
CANAAN		
CANAAN	✓	
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Kepala Satker ( Paraf dan Tanggal )		

To: As. Pelaks  
 cc. Adit  
 cc. Panitia EV Kom.  
 - Bahan Negosiasi



# Oriental Consultants Company Limited

In association with

NIHON SUIDO CONSULTANTS Co., Ltd PT. INDAH KARYA (Persero) PT. REKA DESINDO MANDIRI  
PT. SANITEK KONSULTINDO PT. SILCON ADILARAS PT. ARKONIN ENGINEERING MANGGALA PRATAMA  
CONSULTING SERVICES FOR COMPONENT C : URBAN DRAINAGE SYSTEM IMPROVEMENT  
AND WATER SUPPLY WORKS FOR THE WESTERN AREA OF SEMARANG CITY (Under JICA Loan IP No. 534)  
Project Office Address : Jl. Kesehatan Raya No. 124 – Tanah Mas 50176 SEMARANG, CENTRAL JAVA  
Telp/Fax. 024 - 3566320

Semarang, February 4<sup>th</sup>, 2014  
Ref No.: PNIRSSA-II/II/14/03

To:  
PPK Pengembangan Infrastruktur PLP Metropolitan  
Central Java Province  
Jl. Gajahmungkur No. 14-16  
Semarang

Attn: **Mrs. Hotma Ultua YS, ST.MT**

Subject : **Unit Rate Analysis and Engineering Cost Estimate of Floor Standing AC**

Dear Sir,

PT. Adhi Karya – PT.PP (JV) submitted unit rate analysis of the Floor Standing AC by the letter dated on February 4<sup>th</sup>, 2014 (Ref: No. 1830/AK-PP/JV/II/2014).

The unit rate has to be negotiated by the Procurement Committee.

For the purpose of negotiation by the Procurement Committee, the Engineer provides Engineering Cost Estimate as attached herewith.

Thank you for attention and prompt decision.



Cc:

1. Head of Satker P2LP Central Java
2. Procurement Committee
3. Mr. Ir. Mohamad Ali
4. File

**ENGINEERING COST ESTIMATE**  
**UNIT PRICE**

Project  
Work Item  
Unit

: Urban Drainage System Improvement and Water Supply Works  
: Floor Standing AC 5 PK  
: 2 unit

No	Description	Unit	Quantity	Unit Cost	Total Cost
<b>A. LABOURS</b>					
1		-	-	-	-
2		-	-	-	-
3		-	-	-	-
<b>B. MATERIALS</b>					
Electrical Installation					
1	AC Floor Standing 5 PK 'DAIKIN'	mtr	2	26,000,000.00	52,000,000.00
2	Cable NYM 3 x 4 mm <sup>2</sup>	mtr	45	30,000.00	1,350,000.00
3	MCB 25 A	pcs	2	150,000.00	300,000.00
4	Clamp for Cable	pack	3	21,000.00	63,000.00
Pipe Installation					
1	Pipe 5/8 inch	mtr	4	150,000.00	600,000.00
2	Pipe 3/8 inch	mtr	4	150,000.00	600,000.00
3	Clamp Pipe	pcs	10	21,000.00	210,000.00
4	Breket for Outdoor unit	pcs	2	70,000.00	140,000.00
5	Cost Wage Fixing Installation	unit	2	600,000.00	1,200,000.00
6	Exhaust Pipe Water	pcs	4	15,000.00	60,000.00
<b>C. EQUIPMENT</b>					
1				-	-
2				-	-
Subtotal					56,523,000.00
Profit + overhead					2,826,150.00
<b>TOTAL</b>					<b>59,349,150.00</b>

32.231 271.5 /pc

HS



CONSTRUCTION & INVESTMENT

PT. ADHI-PP  
JOINT VENTURE. (JV)

Jl. Gayung Kebonsari No. 167A, Surabaya 60231 Tlp. 62-31 8267251, 8291671 Fax 62-31 8290  
Jl. Pemuda No. 82 Samarang 50133 Tlp. 62-24 3547455, 3547456. Fax 62-24 3551911

No : 1830/AK-PP/JV/II/2014  
Enclosure : 2 Sheets (A4)

Semarang, February 4<sup>th</sup>, 2014

To : ORIENTAL CONSULTANTS Co. Ltd.  
Attn : Mr. Mitsuo Miura  
CC : PPK Pengembangan Infrastruktur PLP Metropolitan  
Mr. Sugeng, ME  
Mr. Djoko Roosmany  
Mr. Mohamad Ali  
Mr. Bambang  
Archive

Subject : **Submission of calculation quantities including the Quotation for Floor Standing AC for Pump Panel House**

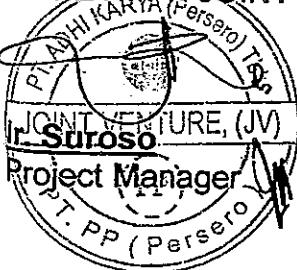
Dear Sir,

Regarding to your letter No.OC-Semarang/C1/II/14/1560 dated February 3<sup>rd</sup>, 2014 with subject "Materials for Floor Standing AC of Pump Panel House" that consist of revision of cable and MCB, we would like to submit calculation quantities including the quotation for Floor Standing AC for Pump Panel House with amount Rp. 78,736,000. Please find the enclosed attachment about the calculation sheet and the quotation.

Dealing to the matter above we considered that the works above will be included on additional work, and we look forward about for your approval as soon as possible.

Thank you for attention and good cooperation.

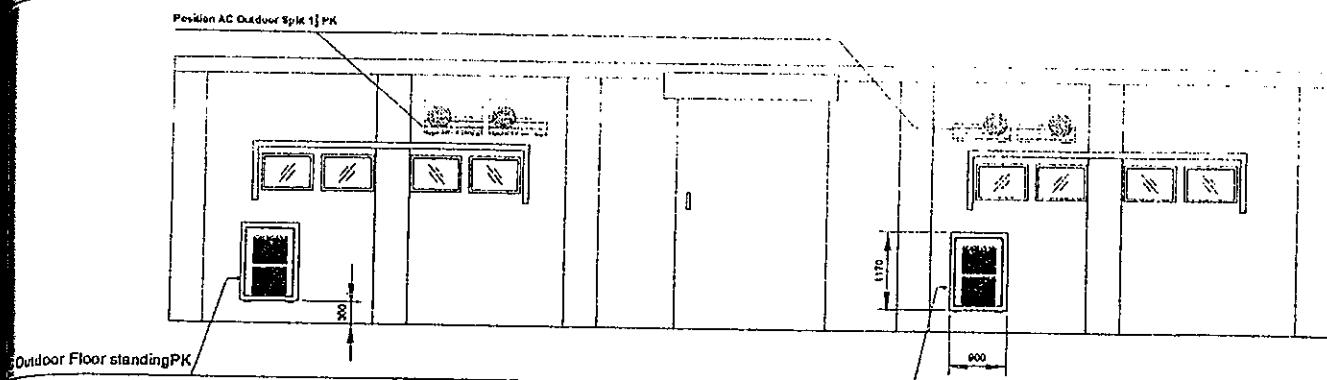
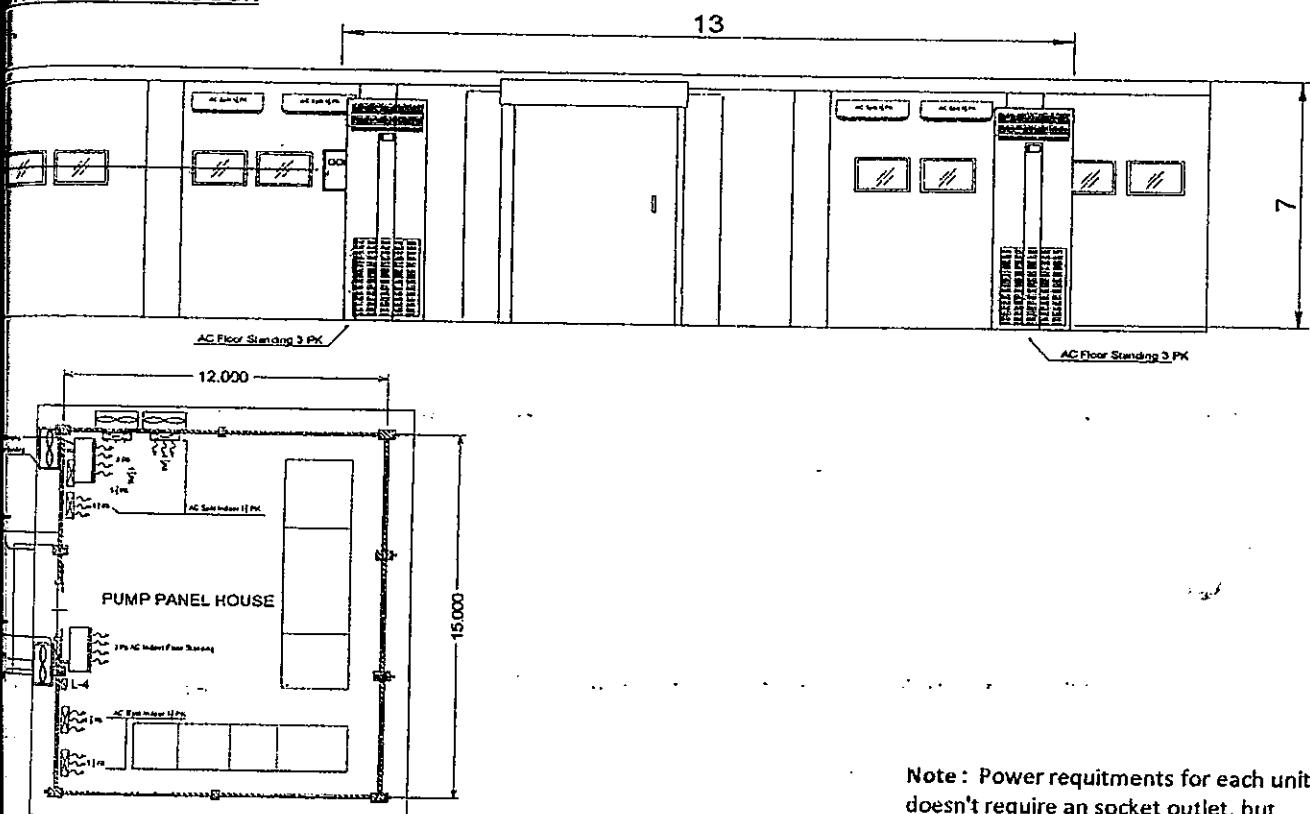
Best Regards,  
**PT ADHI-PP JOINT VENTURE, (JV)**



Type of Work

Additional Installation AC (Air Conditioner) floor standing 5 pK  
: Pump Panel HousePT ADHI KAHYA (Persero) Tbk - PT. PEMBANGUNAN PERUMA  
(Persero) JOINT VENTURE

Sketch

AC POSITION AC OUTDOORAC POSITION AC INDOORPUMP PANEL HOUSE

SCALE : A

Note : Power requirements for each unit doesn't require an socket outlet, but installation direct use the MCB at for each unit

Type	Specification	Quantity	Volume	Remark
Conditioner)Floor Standing 5 pK	Type : Daikin R 125 LUY 14 (Indoor) / FVY 125	2	Units	
W/M 3 x 4 mm	LAVE 4( Outdoor )	45	mtr	
DA	From Power Unit AC to MCB : ( 7 + 8 +6 ) = 22 mtr X 2 Unit + 1 mtr = 45 mtr			
for Air Suction	Scheineder 40 A for AC 5 pk	2	Pcs	Drawing no. AK - PP
for Air Pushing	Inlet Pipe	4	mtr	/JV/20101000004/PS-EL/00
For Outdoor unit	Outlite Pipe	4	mtr	
Cable	Holder For Outdoor Unit	2	pcs	
4 Pipe 3/4	clamp cable from unit AC to MCB Box panel	2	pack	
ipe	Exhaust Water AC Pipe: (2 mtr x 2 stick pipe) = 4 mtr	4	mtr	
	4 mtr need 10 pcs clamp	10	Pcs	

Wilayah PPLP - Jawa Tengah

Oriental Consultants

(Sigit Wahyono)

( Ir. Mohamad Ali )

Adhi Kahya - PP ( JV )

( Mirza Khussudud, ST )

No	Material	Unit	Volume	Unit Price	Total PRICE
<b>A Electrical Installation</b>					
1	Unit 'DAIKIN' AC Floor Standing 5 PK	mtr	2	Rp 35.840.000	Rp 71.680.000
2	Cabel NYM 3 x 4mm <sup>2</sup>	mtr	45	Rp 35.000	1.575.000
3	MCB 40 A	pcs	2	Rp 252.000	504.000
4	Clamp For cable	pack	3	Rp 21.000	63.000
<b>B Pipe Installation</b>					
1	Pipe 5/8 Inch	mtr	4	Rp 210.000	Rp 840.000
2	Pipe 3/8 inch	mtr	4	Rp 210.000	Rp 840.000
3	Clamp Pipe	pcs	10	Rp 2.100	21.000
4	Bracket For Outdoor unit	pc	2	Rp 70.000	140.000
5	Cost Wage Fixing Installation	unit	2	Rp 1.400.000	2.800.000
6	Exhaust Pipe Water	pcs	4	Rp 21.000	84.000
				<b>Total</b> Rp	<b>78.736.000</b>

Satuan Kerja PPLP - Jawa Tengah

Oriental Consultants

Adhi Karya - PP ( JV )



( Sigit Wahyono )

( Ir. Mohammad Ali )



Semarang, 04 February 2014

**LEMBAR DISPOSISI**  
**SATUAN KERJA**  
**PENGEMBANGAN PENYEHATAN LINGKUNGAN PERMUKIMAN JAWA TENGAH**  
**TAHUN ANGGARAN 2014**

: 04-02-2014	TANGGAL MENERIMA : 05-02-2014																																											
: 1830/AK-PP/JV/II/2014	AGENDA NOMOR : 105																																											
	KODE																																											
: Submission of calculation quantities including floor standing AC for pump panel house																																												
: PT. Adhi - PP Joiont Venture																																												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">ASAUDARA</th> <th style="width: 20%;">URGENSI</th> <th style="width: 50%;">PARAF &amp; TANGGAL</th> </tr> </thead> <tbody> <tr><td>TEKNIS PPLP</td><td></td><td></td></tr> <tr><td>FRAS PLP METRO</td><td>✓</td><td>16</td></tr> <tr><td>FRAS PLP</td><td></td><td></td></tr> <tr><td>KER</td><td></td><td></td></tr> <tr><td>GAN</td><td></td><td></td></tr> <tr><td>ANAAN</td><td></td><td></td></tr> <tr><td>ANAAN</td><td>✓</td><td></td></tr> <tr><td>KNIK</td><td></td><td></td></tr> <tr><td>..... Kali</td><td></td><td></td></tr> <tr><td>es</td><td></td><td></td></tr> <tr><td>ake saya</td><td></td><td></td></tr> <tr><td>aaya</td><td></td><td></td></tr> <tr><td>angkutan</td><td></td><td></td></tr> </tbody> </table>			ASAUDARA	URGENSI	PARAF & TANGGAL	TEKNIS PPLP			FRAS PLP METRO	✓	16	FRAS PLP			KER			GAN			ANAAN			ANAAN	✓		KNIK			..... Kali			es			ake saya			aaya			angkutan		
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Kepala Satker ( Paraf dan Tanggal )																																												



CONSTRUCTION & INVESTMENT

PT. ADHI-PP  
JOINT VENTURE, (JV)

Jl. Gayung Kebonsari No. 167A, Surabaya 60231 Tlp. 62-31 8287251, 8291671, Fax. 62-31 8290711  
Jl. Pemuda No. 82 Semarang 50133 Tlp. 62-24 3547455, 3547456, Fax. 62-24 3551911

No : 1830/AK-PP/JV/II/2014  
Enclosure : 2 Sheets (A4)

Semarang, February 4<sup>th</sup>, 2014

To : ORIENTAL CONSULTANTS Co. Ltd.  
Attn : Mr. Mitsuo Miura  
CC : PPK Pengembangan Infrastruktur PLP Metropolitan  
Mr. Sugeng, ME  
Mr. Djoko Roosmany  
Mr. Mohamad Ali  
Mr. Bambang  
Archive

**Subject : Submission of calculation quantities including the Quotation for Floor Standing AC for Pump Panel House**

Dear Sir,

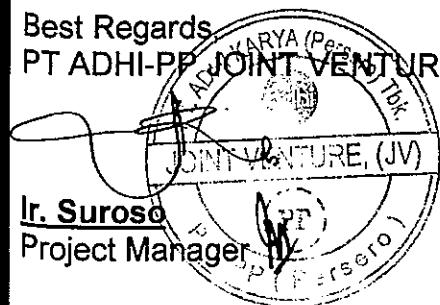
Regarding to your letter No.OC-Semarang/C1/II/14/1560 dated February 3<sup>rd</sup>, 2014 with subject "Materials for Floor Standing AC of Pump Panel House" that consist of revision of cable and MCB, we would like to submit calculation quantities including the quotation for Floor Standing AC for Pump Panel House with amount Rp. 78,736,000. Please find the enclosed attachment about the calculation sheet and the quotation.

Dealing to the matter above we considered that the works above will be included on additional work, and we look forward about for your approval as soon as possible.

Thank you for attention and good cooperation.

Best Regards  
PT ADHI-PP JOINT VENTURE, (JV)

Ir. Suroso  
Project Manager



SEMARANG PUMPING STATION AND RETARDING POND (CIVIL AND ARCHITECTURAL WORKS)

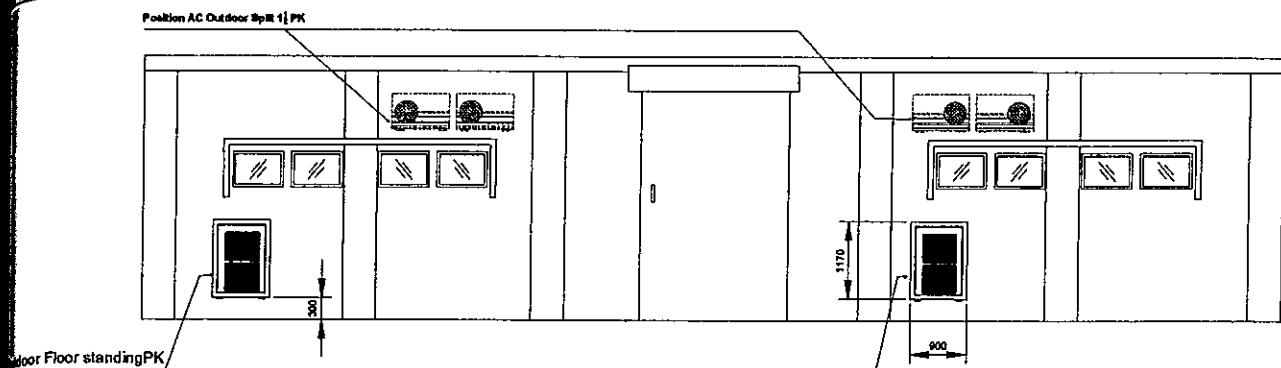
Quantity Calculation Sheet

Work : Additional Installation AC (Air Conditioner) floor standing 5 pK  
: Pump Panel House

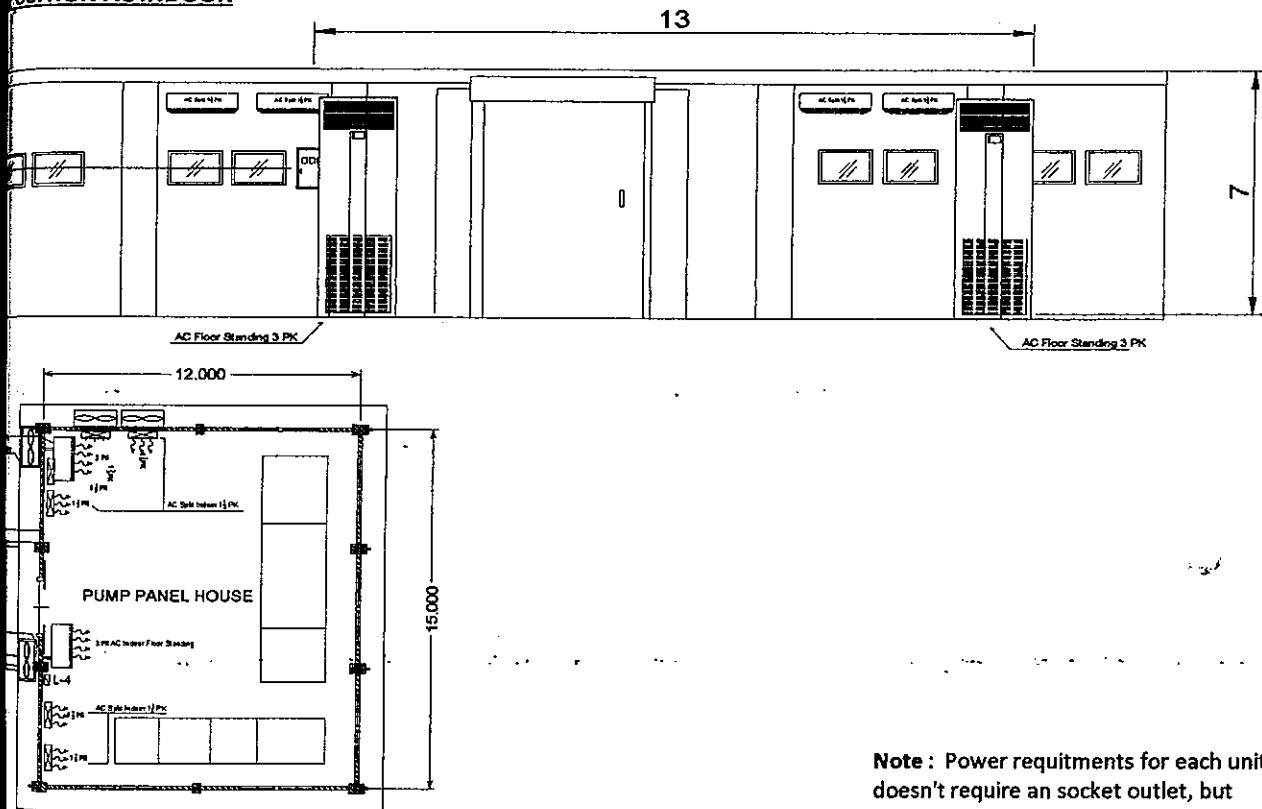
PT. ADHI KARYA (Persero) Tbk - PT. PEMBANGUNAN PERUMAHAN  
(Persero) JOINT VENTURE

Sketch

**POSITION AC OUTDOOR**



**POSITION AC INDOOR**



Note : Power requirements for each unit doesn't require an socket outlet, but installation direct use the MCB at for each unit

**PUMP PANEL HOUSE**

SCALE : A

Type	Specification	Quantity	Volume	Remark
Conditioner)Floor Standing 5 pK	Type : Daikin R 125 LUY 14 (Indoor) / FVY 125 LAVE 4( Outdoor ) From Power Unit AC to MCB : ( 7 + 9 +6 ) = 22 mtr X 2 Unit + 1 mtr = 45 mtr	2	Units	
W3 x 4 mm	Scheineder 40 A for AC 5 pk Inlet Pipe Outlite Pipe Holder For Outdoor Unit clamp cable from unit AC to MCB Box panel	2	Pcs	
Air Suction Air Pushing For Outdoor unit	Exhaust Water AC Pipe: (2 mtr x 2 stick pipe) = 4 mtr 4 mtr need 10 pcs clamp	4	mtr	
Pe 3/4		2	mtr	
		2	pack	
		4	mtr	
		10	Pcs	

Da PPLP - Jawa Tengah

Oriental Consultants

Adhi Karya - PP ( JV )

Digit Wahyono )

( Ir. Mohamad Ali )

( Mirza Khassu'ud, ST )

No	Material	Unit	Volume	Unit Price	Total PRICE
<b>A Electrical Installation</b>					
1	Unit 'DAIKIN' AC Floor Standing 5 PK	mtr	2	Rp 35.840.000	Rp 71.680.000
2	Cabel NYM 3 x 4mm <sup>2</sup>	mtr	45	Rp 35.000	Rp 1.575.000
3	MCB 40 A	pcs	2	Rp 252.000	Rp 504.000
4	Clamp For cable	pack	3	Rp 21.000	Rp 63.000
<b>B Pipe Installation</b>					
1	Pipe 5/8 Inch	mtr	4	Rp 210.000	Rp 840.000
2	Pipe 3/8 inch	mtr	4	Rp 210.000	Rp 840.000
3	Clamp Pipe	Pcs	10	Rp 21.000	Rp 210.000
4	Breket For Outdoor unit	pcs	2	Rp 70.000	Rp 140.000
5	Cost Wage Fixing Installation	unit	2	Rp 1.400.000	Rp 2.800.000
6	Exhaust Pipe Water	Pcs	4	Rp 21.000	Rp 84.000
Total				<b>Rp 78.736.000</b>	

Satuan Kerja PPLP - Jawa Tengah

Oriental Consultants

Semarang, 04 Febuary 2014

Adhi Karya - PP ( JV )

( Sigit Wahyono )

( Ir. Mohamad Ali )

  
( Mirza Khansulud, ST )

**LEMBAR DISPOSISI**  
**SATUAN KERJA**  
**PENGEMBANGAN PENYEHATAN LINGKUNGAN PERMUKIMAN JAWA TENGAH**  
**TAHUN ANGGARAN 2014**

: 03-02-2014	TANGGAL MENERIMA : 07-02-2014																																																									
: OC-Semarang/C1/II/14/1560	AGENDA NOMOR : 134																																																									
	KODE																																																									
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<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">IDA SAUDARA</th> <th style="width: 30%;">URGENSI</th> <th style="width: 40%;">PARAF &amp; TANGGAL</th> </tr> </thead> <tbody> <tr><td>AN TEKNIS PPLP</td><td></td><td></td></tr> <tr><td>INFRAS PLP METRO</td><td>✓</td><td>15</td></tr> <tr><td>INFRAS PLP</td><td></td><td></td></tr> <tr><td>ATKER</td><td></td><td></td></tr> <tr><td>NGAN</td><td></td><td></td></tr> <tr><td>NCANAAN</td><td></td><td></td></tr> <tr><td>KSANAAN</td><td>✓</td><td></td></tr> <tr><td>TEKNIK</td><td></td><td></td></tr> <tr><td>..... Kali</td><td></td><td></td></tr> <tr><td>ses</td><td></td><td></td></tr> <tr><td>an</td><td></td><td></td></tr> <tr><td>ni</td><td></td><td></td></tr> <tr><td>an</td><td></td><td></td></tr> <tr><td>an ke saya</td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td>saya</td><td></td><td></td></tr> <tr><td>sangkutan</td><td></td><td></td></tr> </tbody> </table>		IDA SAUDARA	URGENSI	PARAF & TANGGAL	AN TEKNIS PPLP			INFRAS PLP METRO	✓	15	INFRAS PLP			ATKER			NGAN			NCANAAN			KSANAAN	✓		TEKNIK			..... Kali			ses			an			ni			an			an ke saya									saya			sangkutan		
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Kepala Satker ( Paraf dan Tanggal )																																																										



# Oriental Consultants Company Limited

In association with

NIHON SUIDO CONSULTANTS Co., Ltd PT. INDAH KARYA (Persero) PT. REKA DESINDO MANDIRI  
PT. SANITEK KONSULTINDO PT. SILCON ADILARAS PT. ARKONIN ENGINEERING MANGGALA PRATAMA  
CONSULTING SERVICES FOR COMPONENT C : URBAN DRAINAGE SYSTEM IMPROVEMENT  
AND WATER SUPPLY WORKS FOR THE WESTERN AREA OF SEMARANG CITY (Under JICA Loan IP No. 534)  
Project Office Address : Jl. Kesehatan Raya No. 124 – Tanah Mas 50176 SEMARANG, CENTRAL JAVA  
Telp/Fax. 024 - 3566320

Date: Semarang, February 3<sup>rd</sup>, 2014  
Ref: No. OC-Semarang/C1/II/14/1560

To:  
PT. ADHI KARYA – PT. PP Joint Venture (JV)

Attn: **Mr. Ir. Suroso**  
Cc: Mr. Verry Hermawan, ST  
Mr. Wawan Eko Rianto, ST

Subject: **Materials for Floor Standing AC of Pump Panel House**

Dear Sir,

Refer to your letter dated on January 29<sup>th</sup>, 2014, (Ref: No. 1816/AK-PP/JV/I/2014) and the Engineer's letter dated on January 30<sup>th</sup>, 2014, (Ref: No. OC-Semarang/C1/I/14/1557), the Engineer requests the Package C1 Contractor to revise the proposed materials as mentioned on the attached correction.

Thank you for your good cooperation.

Yours Faithfully,

  
**Mitsuo MIURA**  
Team Leader



Cc:

1. Head of Satker P2LP Central Java
- ② PPK Pengembangan Infrastruktur PLP Metropolitan
3. Mr. Ir. Mohamad Ali
4. File

SEMARANG PUMPING STATION AND RETARDING POND (CIVIL AND ARCHITECTURAL WORKS)

Quantity Calculation Sheet

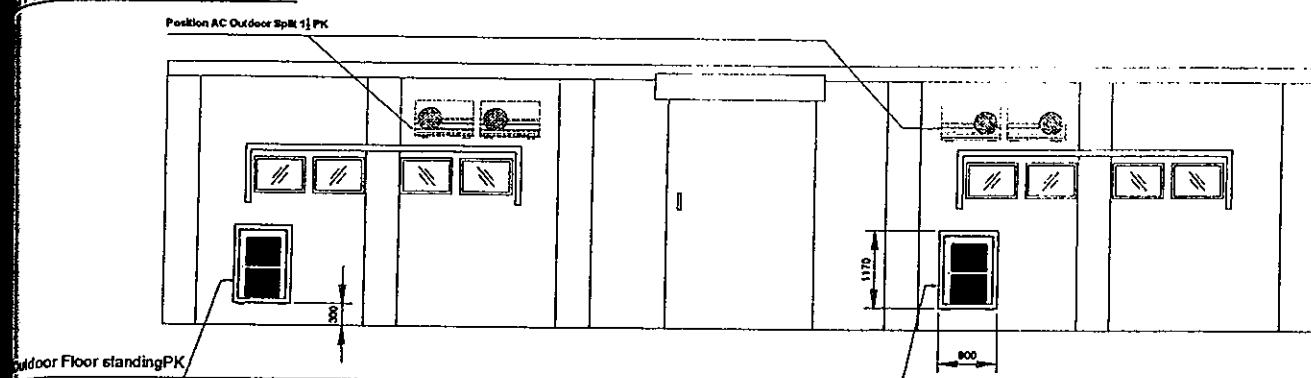
of Work

- : Additional Installation AC (Air Conditioner) floor standing 3 pK or 5 pK
- : Pump Panel House

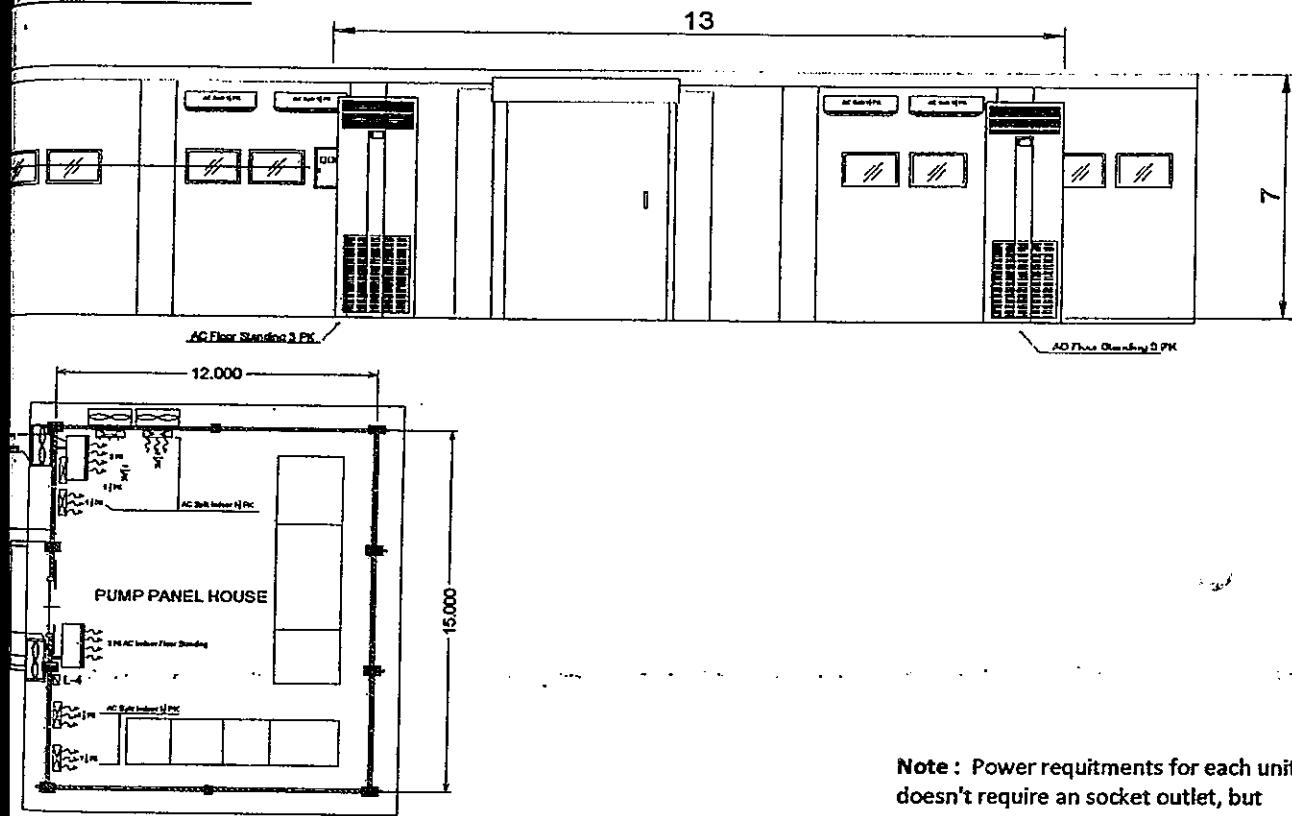
PT. ADHI KARYA (Persero) Tbk - PT PEMBANGUNAN  
PERUMAHAN (Persero) JOINT VENTURE

Sketch

**POSITION AC OUTDOOR**



**POSITION AC INDOOR**



**PUMP PANEL HOUSE**

SCALE: A

Note : Power requirements for each unit doesn't require an socket outlet, but installation direct use the MCB at 16 A for each unit

Type	Specification	Quantity	Volume	Remark
Conditioner)Floor Standing 5 pK "or"	Type : Daikin R 125 LUY 14 "or else"	2	Units	
Conditioner)Floor Standing-3-pk	Type : Daikin R 71 LUY 14	2	Units	
3 x 2.5 mm <i>(4)</i>	From Power Unit AC to MCB : ( 7 + 9 + 6 ) = 22 mtr X 2 Unit + 1 mtr = 45 mtr ( Scheineder 25 A for AC 5 pk ) ( Scheineder 16 A for AC 3 pk )	45	mtr	
Air Suction	Inlet Pipe	4	mtr	
Air Pushing	Outlite Pipe	4	mtr	
For Outdoor unit	Holder For Outdoor Unit	2	pcs	
Line	clamp cable from unit AC to MCB Box panel	2	pack	
Size 3/4	Exhaust Water AC Pipe: ( 2 mtr x 2 stick pipe ) = 4 mtr 4 mtr need 10 pcs clamp	4	mtr	
		10	Pcs	

Jia PPLP - Jawa Tengah

Oriental Consultants

Sigit Wahyono )

( Ir. Mohamad Ali )

Adhi Karya - PP (JV)

( Mirza Khussu'ud, ST )

## Oriental Consultants Company Limited

In association with

NIHON SUIDO CONSULTANTS Co., Ltd PT INDAH KARYA (Persero) PT RUKA DESINDO MANDIRI

PT. SANITEK KONSULTINDO PT SILICON ADILARAS PT ARKONIN ENGINEERING MANGGAI A PRATAMA

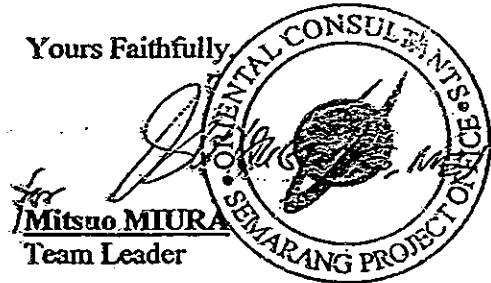
CONSULTING SERVICES FOR COMPONENT C URBAN DRAINAGE SYSTEM IMPROVEMENT  
AND WATER SUPPLY WORKS FOR THE WESTERN AREA OF SEMARANG CITY (Under JICA Loan IP No. 534)Project Office Address : Jl. Puri Anjasmoro Blok. M6 No.19 Komp. Puri Anjasmoro - 50144 SEMARANG, CENTRAL JAVA  
Telp/Fax. 024 - 7603352Date: Semarang, January 30<sup>th</sup>, 2014  
Ref: No. OC-Semarang/C1/I/14/1557**To:****PT. ADHI KARYA – PT. PP Joint Venture (JV)****Attn:** Mr. Ir. Suroso**Cc:** Mr. Verry Hernawan, ST  
Mr. Wawan Eko Rianto, ST**Subject:** Selected of Floor Standing Air Conditioner (AC) for Pump Panel House

Dear Sir,

Refer to your letter dated on January 29<sup>th</sup>, 2014, (Ref: No. 1816/AK-PP/JV/I/2014), concerning the captioned subject, base on the requirement of floor standing Air Conditioner (AC) for Pump Panel House, we determine for use 2 (two) unit of 5 PK Air Conditioner (AC).

Thank you for your good cooperation.

Yours Faithfully,



Mitsuo MIURA

Team Leader

**Cc:**

1. Head of Satker P2LP Central Java
2. PPK Pengembangan Infrastruktur PLP Metropolitan
3. Mr. Ir. Mohamad Ali
4. File

**LEMBAR DISPOSISI**  
**SATUAN KERJA**  
**PENGEMBANGAN PENYEHATAN LINGKUNGAN PERMUKIMAN JAWA TENGAH**  
**TAHUN ANGGARAN 2014**

: 30-01-2014		TANGGAL MENERIMA : 07-02-2014
: OC-Semarang/C1/II/14/1557		AGENDA NOMOR : 137 ✓
		KODE
: selected of floor standing air conditioner (AC)		
I house		
: OC		
DA SAUDARA	URGENSI	PARAF & TANGGAL
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INFRAAS PLP METRO	✓	18
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To As. Pelair,

cc. Adit

udk. — AC Standing . 5 PIK  
Sebnyk 2 unit



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NIHON SUIDO CONSULTANTS Co., Ltd PT. INDAH KARYA (Persero) PT. REKA DESINDO MANDIRI  
PT. SANITEK KONSULTINDO PT. SILCON ADILARAS PT. ARKONIN ENGINEERING MANGGALA PRATAMA  
CONSULTING SERVICES FOR COMPONENT C : URBAN DRAINAGE SYSTEM IMPROVEMENT  
AND WATER SUPPLY WORKS FOR THE WESTERN AREA OF SEMARANG CITY (Under JICA Loan IP No. 534)  
Project Office Address : Jl. Puri Anjasmoro Blok. M6 No.19 Komp. Puri Anjasmoro – 50144 SEMARANG, CENTRAL JAVA  
Telp/Fax. 024 - 7603352

Date: Semarang, January 30<sup>th</sup>, 2014  
Ref: No. OC-Semarang/C1/I/14/1557

To:  
PT. ADHI KARYA – PT. PP Joint Venture (JV)

Attn: Mr. Ir. Suroso  
Cc: Mr. Verry Hermawan, ST  
Mr. Wawan Eko Rianto, ST

Subject: Selected of Floor Standing Air Conditioner (AC) for Pump Panel House

Dear Sir,

Refer to your letter dated on January 29<sup>th</sup>, 2014, (Ref: No. 1816/AK-PP/JV/I/2014), concerning the captioned subject, base on the requirement of floor standing Air Conditioner (AC) for Pump Panel House, we determine for use 2 (two) unit of 5 PK Air Conditioner (AC).

Thank you for your good cooperation.

Yours Faithfully,



Cc:  
1. Head of Satker P2LP Central Java  
② PPK Pengembangan Infrastruktur PLP Metropolitan  
3. Mr. Ir. Mohamad Ali  
4. File

**LEMBAR DISPOSISI  
SATUAN KERJA  
PENGEMBANGAN PENYEHATAN LINGKUNGAN PERMUKIMAN JAWA TENGAH  
TAHUN ANGGARAN 2014**

: 27-01-2014	TANGGAL MENERIMA : 27-01-2014	
: PNIRSSA-II/I/14/02	AGENDA NOMOR : 63 ✓	
	KODE	
: Quotation for removal and installing the box		
pump house		
: OC		
DA SAUDARA	URGENSI	PARAF & TANGGAL
IN TEKNIS PPLP		
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# Oriental Consultants Company Limited

In association with

NIHON SUIDO CONSULTANTS Co., Ltd PT. INDAH KARYA (Persero) PT. REKA DESINDO MANDIRI

PT. SANITEK KONSULTINDO PT. SILCON ADILARAS PT. ARKONIN ENGINEERING MANGGALA PRATAMA

CONSULTING SERVICES FOR COMPONENT C : URBAN DRAINAGE SYSTEM IMPROVEMENT

AND WATER SUPPLY WORKS FOR THE WESTERN AREA OF SEMARANG CITY (Under JICA Loan IP No. 534)

Project Office Address : Jl. Puri Anjasmoro Blok. M6 No.19 Komp. Puri Anjasmoro – 50144 SEMARANG, CENTRAL JAVA  
Telp/Fax. 024 – 7603352

Semarang, January 27<sup>th</sup>, 2014

Ref No : PNIRSSA-II/I/14/02

To:

PPK Pengembangan Infrastruktur PLP Metropolitan  
Central Java Province  
Jl. Gajahmungkur No. 14-16  
Semarang

Attn: **Mrs. Hotma Ulitua YS, ST.MT**

Subject: **Quotation for Removal and Installing the Box Panel L3 of the Pump House**

Dear Sir,

Refer to the Package C1 Contractor letter dated on January 24<sup>th</sup>, 2014 (Ref. No. 1821/AK-PP/JV/I/2014), concerning the captioned subject, the Engineer has:

1. **Checked and approved** the Previous Quotation for Removal and Installing the Box Panel L3 of the Pump House submitted by the Package C1 Contractor, dated on January 10<sup>th</sup>, 2014 (Ref. No. 1800/AK-PP/JV/I/2014) covered by the Engineer's letter dated on January 16<sup>th</sup>, 2014 (Ref. No. OC-Semarang/C1/I/14/1545). Copy of the letter is attached herewith.
2. **Opinion** that the previous proposed unit price submitted by the Package C1 Contractor as mentioned in the letter dated on January 10<sup>th</sup>, 2014 are moderate, it means that the unit price are reliable to be implemented by the Package C1 Contractor.
3. **Checked the new proposed unit price** as mentioned in the Contractor's letter dated on January 24<sup>th</sup>, 2014 (Ref. No. 1821/AK-PP/JV/I/2014), and it has to be negotiated by the Procurement Committee).

Thank you for attention and prompt decision.

Yours Faithfully,

for  
Mitsuo MIURA  
Team Leader



Cc:

1. Head of Satker P2LP Central Java
2. Procurement Committee
3. Mr. Ir. Mohamad Ali
4. File



CONSTRUCTION & INVESTMENT

PT. ADHI-PP  
JOINT VENTURE (JV)

Jl. Gayung Kebonsari No. 167A, Surabaya 60231 Tlp. 62-31 8287251, 8291871, Fax. 62-31 6250

Jl. Pemuda No. 82 Semarang 50133 Tlp. 62-24 3547455, 3547456, Fax. 62-24 3551911

No : 1821/AK-PP/JV/I/2014  
Enclosure : 1 Sheets (A4)

Semarang, January 24<sup>th</sup>, 2014

To : ORIENTAL CONSULTANTS Co. Ltd.  
Attn : Mr. Mitsuo Miura  
CC : PPK Pengembangan Infrastruktur PLP Metropolitan  
Mr. Sugeng, ME  
Mr. Djoko Roosmany  
Mr. Mohamad Ali  
Archive

**Subject : Submission of quotation for removal and installing the Box Panel L3 of the Pump House**

Dear Sir,

Regarding to your letter No.OC-Semarang/C1/I/14/1545 dated January 16<sup>th</sup>, 2014 with subject "Quantities Calculation for Removal and Installation the Box Panel L3 of the Pump House", we would like to resubmit the quotation for removal and installing the Box Panel L3 of the Pump House with total amount **Rp.3,790,080**. Please find the enclosed attachment about the quotation.

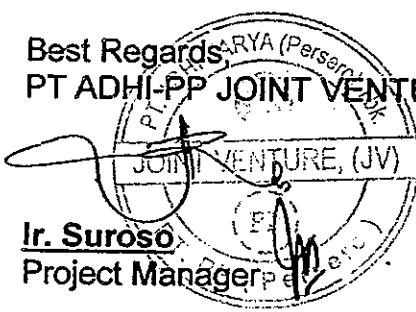
Dealing to the matter above we considered that the works above will be included on additional work, and we look forward about for your approval as soon as possible.

Thank you for attention and good cooperation.

Best Regards,  
**PT ADHI-PP JOINT VENTURE, (JV)**

Ir. Suroso

Project Manager



**Quotation of Additional work for panel Box Lamp Instrumen Displacement in Pump House Building**

No	Item	Volume	Unit	Unit Price	Total Price	Remarks
1	Cable NYM 3 x 2,5 ( Supreme )	80	mtr	Rp 37.044	Rp 2.963.520	# For the 2 inch pvc pipe price is already a negotiable price of Satker on 6 January 2014,
2	Pipe Pvc "2" inch	8	mtr	Rp 37.170	Rp 297.360	
3	Knie Pvc "2" Inch	6	pcs	Rp 21.000	Rp 126.000	
4	Duradius 20 mm"	1	pcs	Rp 11.200	Rp 11.200	while cable NYM 3 x 2.5 is the new rate
5	clamp Pipe	10	pcs	Rp 4.200	Rp 42.000	
6	Aids Material	1	ls	Rp 70.000	Rp 70.000	
7	Cost Removal & Install	1	ls	Rp 280.000	Rp 280.000	
TOTAL:				Rp 3.790.080		

Satuan Kerja PPLP - Jawa Tengah

Oriental Consultants

Adhi Karya- PP ( JV )

(Mirza Khussyud, ST)

Semarang, 24 januari 2013

( Sigit Wahyono )

( Ir. Mohammad Ali )

NIHON SUIDO CONSULTANTS Co., Ltd PT INDAH KARYA (Persero) PT REKA DESINDO MANDIRI

PT. SANITEK KONSULTINDO PT. SILCON ADILARAS PT ARKONIN ENGINEERING MANGGALA PRATAMA

CONSULTING SERVICES FOR COMPONENT C : URBAN DRAINAGE SYSTEM IMPROVEMENT  
AND WATER SUPPLY WORKS FOR THE WESTERN AREA OF SEMARANG CITY (Under JICA Loan IP No. 534)Project Office Address : Jl. Puri Anjasmoro Blok. M6 No.19 Komp. Puri Anjasmoro – 50144 SEMARANG, CENTRAL JAVA  
Telp/Fax. 024 - 7603352Date: Semarang, January 16<sup>th</sup>, 2013  
Ref: No. OC-Semarang/C1/I/14/1545

To:  
**PT. ADHI KARYA – PT. PP Joint Venture (JV)**

Attn: **Mr. Ir. Suroso**  
 Cc: **Mr. Verry Hermawan, ST**  
**Mr. Wawan Eko Rianto, ST**

Subject: **Quantities Calculation including the Quotation for Removal and Installing the Box Panel L3 of the Pump House**

Dear Sir,

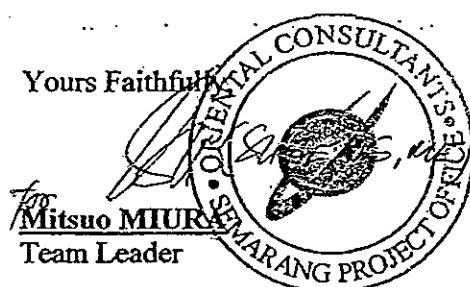
Refer to your letter dated on January 10<sup>th</sup>, 2014 (Ref. No.1800/AK-PP/JV/I/2014), concerning the captioned subject, the Engineer has checked and approved the Quantities Calculation of Removal and Installing the Box Panel L3 of the Pump House as attached herewith.

The proposed unit price of PVC pipe φ 2" and cable NYM 3x2,5 mm<sup>2</sup> (supreme) are moderate compare to "Harga Satuan Pekerjaan Konstruksi Propinsi Jawa Tengah Tahun 2013".

For fixing the unit price, the proposed unit rate has to be negotiated by the Procurement Committee.

Thank you for your good cooperation.

Yours Faithfully



Mitsuo MIURA  
Team Leader

Cc:

1. Head of Satker P2LP Central Java
  2. PPK Pengembangan Infrastruktur PLP Metropolitan
  3. Mr. Ir. Mohamad Ali
- (4) File

Estimation of Additional work for panel Box Lamp Instrumen Displacement in Pump House Building

Item	Volume	Unit	Unit Price	Total Price
Cable NYM 3 x 2,5 ( Supreme )	80 /	mtr	Rp 24.640	Rp 1.971.200
Pipe Pvc "2" inch	8 ✓	mtr	Rp 33.600	Rp 268.800
Knie Pvc "2" Inch	6 ✓	pcs	Rp 21.000	Rp 126.000
Duradus 20 mm"	1 ✓	pcs	Rp 11.200	Rp 11.200
clamp Pipe	10 ✓	pcs	Rp 4.200	Rp 42.000
Aids Material	1 ✓	ls	Rp 70.000	Rp 70.000
Cost Removal & Install	1 ✓	ls	Rp 280.000	Rp 280.000
TOTAL RAB:				Rp 2.769.200

Semarang, 10 Januari 2014

Aturan Kerja PPLP - Jawa Tengah

Oriental Consultants

Adhi Karya - PP (JV)

( Sigit Wahyono )

( Ir. Mohamad Ali )

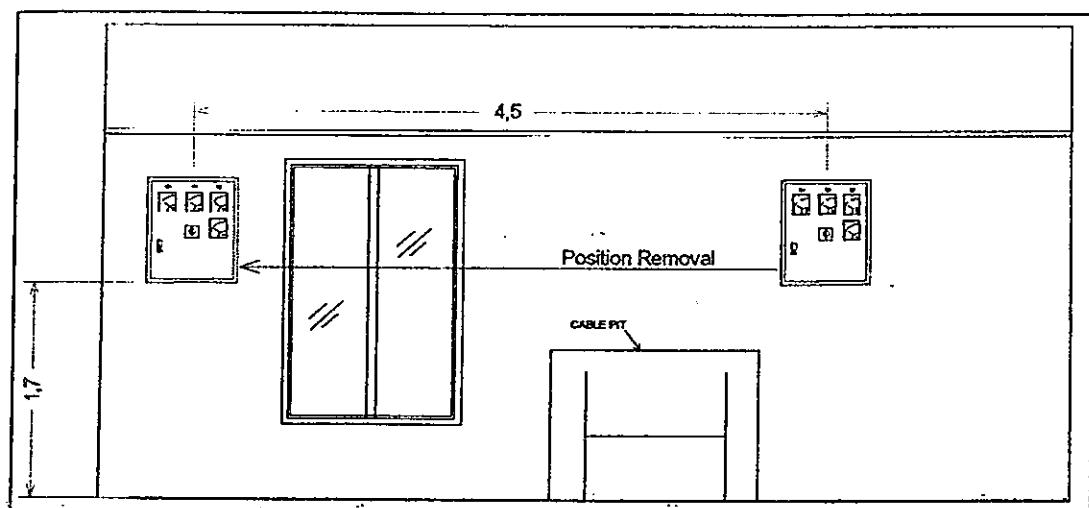
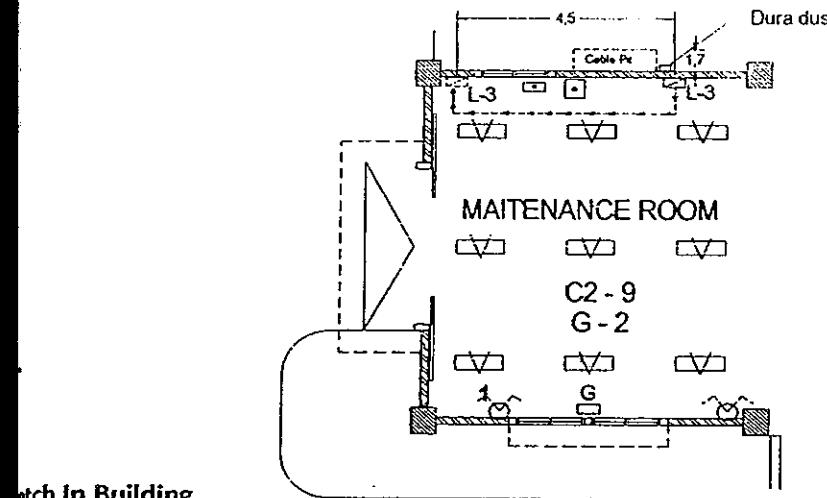
( Mirza Khussu'ud, ST )

**SEMARANG PUMPING STATION AND RETARDING POND (CIVIL AND ARCHITECTURAL WORKS)**  
**Quantity Calculation Sheet**

ber

work : Removal Box Panel Instrument Lightning  
 : PUMP HOUSE

PT.ADH KARYA ( Persero ) Tbk - PT PEMBANGUNAN PERUMAHAN ( Persero )  
 Joint Venture



sketch	Calculation	Quantity	Remarks
NYM 3 x 2,5 mm	$4,5 + 1,7 + 2 + (0,25 \times 2) = 8,7$ Rounded ✓ Calculation : 10 mtr Total : (7 Hub + 10 mtr) + 10 % = 77 mtr <b>Accumulation total: 80 mtr</b>	mtr	
PVC 2 Inch	4 m x 2 pcs = 8	mtr	
Pipe "2" inch	10	Pcs	
PVC "2" Inch	6	Pcs	
Dus 20 mm	1	pcs	

Reja PPLP - Jawa Tengah

Oriental Consultants

(Sigit Wahyono)

(Ir. Mohamad Ali)

Mirza

Adhi Karya - PP ( JV )

01  
(Mirza Khussu'ud, ST)

**LEMBAR DISPOSISI**  
**SATUAN KERJA**  
**PENGEMBANGAN PENYEHATAN LINGKUNGAN PERMUKIMAN JAWA TENGAH**  
**TAHUN ANGGARAN 2014**

: 16-01-2014		TANGGAL MENERIMA : 28-01-2014
: OC-Semarang/C1/I/14/1545		AGENDA NOMOR : 77 ✓
		KODE
: quantities calculation including the quotation for installing the box panel L3 of the pump house		
: OC		
DA SAUDARA	URGENSI	PARAF & TANGGAL
AN TEKNIS PPLP		
INFRASTRUKTUR METRO	✓	10
INFRASTRUKTUR		
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 di proses negosiasinya



# Oriental Consultants Company Limited

In association with

NIHON SUIDO CONSULTANTS Co., Ltd PT. INDAH KARYA (Persero) PT. REKA DESINDO MANDIRI  
PT. SANITEK KONSULTINDO PT. SILCON ADILARAS PT. ARKONIN ENGINEERING MANGGALA PRATAMA  
CONSULTING SERVICES FOR COMPONENT C : URBAN DRAINAGE SYSTEM IMPROVEMENT  
AND WATER SUPPLY WORKS FOR THE WESTERN AREA OF SEMARANG CITY (Under JICA Loan IP No. 534)  
Project Office Address : Jl. Puri Anjasmoro Blok. M6 No. 19 Komp. Puri Anjasmoro – 50144 SEMARANG CENTRAL JAVA  
Telp/Fax. 024 - 7603352

Date: Semarang, January 16<sup>th</sup>, 2013  
Ref: No. OC-Semarang/C1/I/14/1545

To:  
PT. ADHI KARYA – PT. PP Joint Venture (JV)

Attn: Mr. Ir. Suroso  
Cc: Mr. Verry Hermawan, ST  
Mr. Wawan Eko Rianto, ST

Subject: Quantities Calculation including the Quotation for Removal and Installing the Box Panel L3 of the Pump House

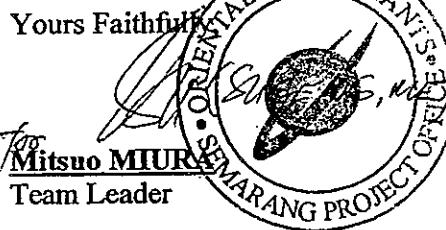
Dear Sir,

Refer to your letter dated on January 10<sup>th</sup>, 2014 (Ref. No.1800/AK-PP/JV/I/2014), concerning the captioned subject, the Engineer has checked and approved the Quantities Calculation of Removal and Installing the Box Panel L3 of the Pump House as attached herewith.

The proposed unit price of PVC pipe φ 2" and cable NYM 3x2,5 mm<sup>2</sup> (supreme) are moderate compare to "Harga Satuan Pekerjaan Konstruksi Propinsi Jawa Tengah Tahun 2013".

For fixing the unit price, the proposed unit rate has to be negotiated by the Procurement Committee.

Thank you for your good cooperation.

Yours Faithfully,  
  
Mitsuo MIURA  
Team Leader

Cc:  
1. Head of Satker P2LP Central Java  
2. PPK Pengembangan Infrastruktur PLP Metropolitan  
3. Mr. Ir. Mohamad Ali  
4. File

**Estimation of Additional work for panel Box Lamp Instrumen Displacement in Pump House Building**

Item	Volume	Unit	Unit Price	Total Price
Cable NYM 3 x 2,5 ( Supreme )	80 ✓	mtr	Rp 24.640	Rp 1.971.200
Pipe Pvc "2" inch	8 ✓	mtr	Rp 33.600	Rp 268.800
Knie Pvc "2" Inch	6 ✓	pcs	Rp 21.000	Rp 126.000
Duradus 20 mm"	1 ✓	pcs	Rp 11.200	Rp 11.200
clamp Pipe	10 ✓	pcs	Rp 4.200	Rp 42.000
Aids Material	1 ✓	ls	Rp 70.000	Rp 70.000
Cost Removal & Install	1 ✓	ls	Rp 280.000	Rp 280.000
<b>TOTAL RAB:</b>				<b>Rp 2.769.200</b>

Semarang, 10 Januari 2014

Bulan Kerja PPLP - Jawa Tengah

Oriental Consultants

Adhi Karya - PP ( JV )

( Sigit Wahyono )

( Ir. Mohamad Ali )

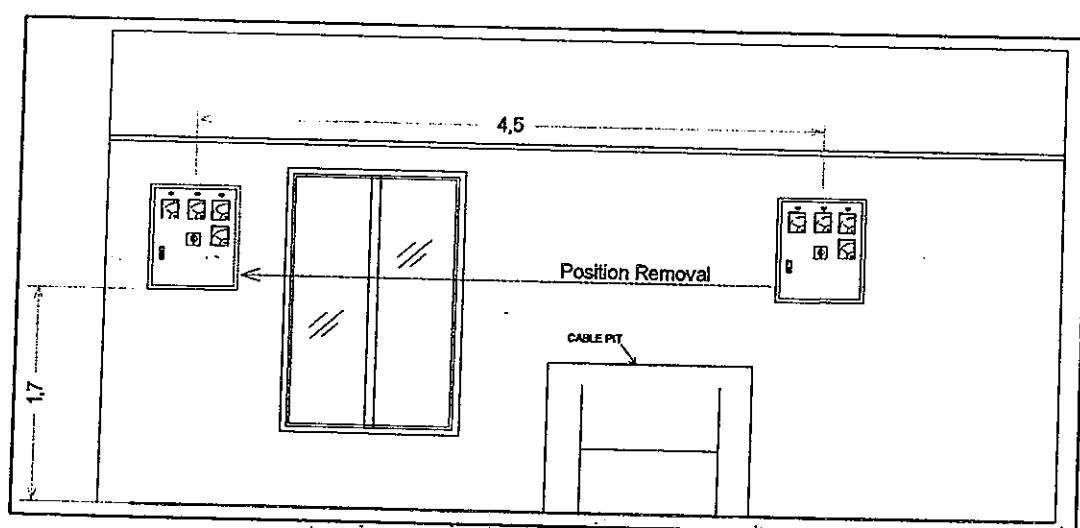
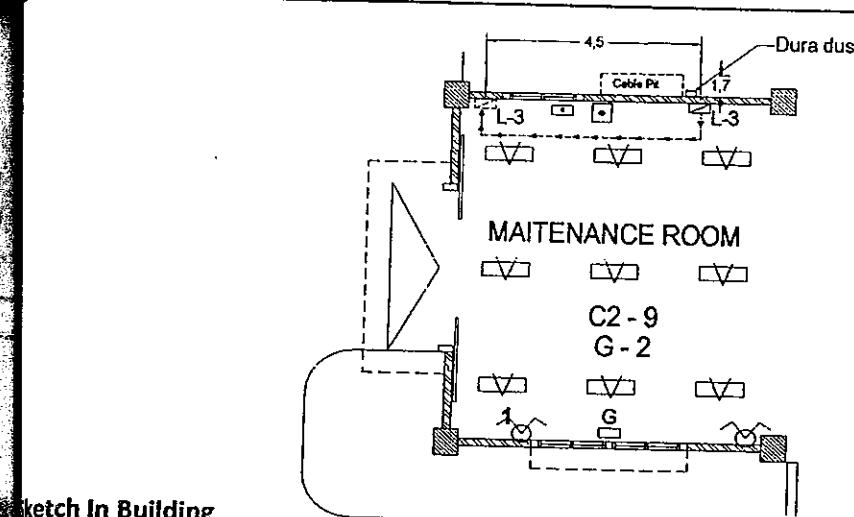
( Mirza Khussu'ud, ST )

**SEMARANG PUMPING STATION AND RETARDING POND (CIVIL AND ARCHITECTURAL WORKS)**  
**Quantity Calculation Sheet**

Number :

Action work : Removal Box Panel Instrument Lighting  
 : PUMP HOUSE

PT.ADH KARYA (Persero) Tbk - PT PEMBANGUNAN PERUMAHAN (Persero)  
 Joint Venture



Sketch	Calculation	Quantity	Remarks
Wire NYM 3 x 2,5 mm	$4,5 + 1,7 + 2 + (0,25 \times 2) = 8,7$ Rounded ✓ Calculation : 10 mtr	mtr	
PVC 2 Inch	Total : (7 Hub + 10 mtr) + 10 % = 77 mtr		
Up Pipe "2" inch	<b>Accumulation total : 80 mtr</b>		
PVC "2" Inch	$4 \text{ m} \times 2 \text{ pcs} = 8$	mtr	
Dus 20 mm	10	Pcs	
	6	Pcs	
	1	pcs	

Kerja PPLP - Jawa Tengah

Oriental Consultants

(Sigit-Wahyono)

(Ir. Mohamad Ali)

M. Ali

Adhi Karya - PP (JV)

Mirza Khussu'ud, ST

**LEMBAR DISPOSISI**  
**SATUAN KERJA**  
**PENGEMBANGAN PENYEHATAN LINGKUNGAN PERMUKIMAN JAWA TENGAH**  
**TAHUN ANGGARAN 2014**

: 09-01-2014	TANGGAL MENERIMA : 16-01-2014	
: OC-Semarang/C1/I/14/1539	AGENDA NOMOR : 38 ✓	
KODE		
: Quantities calculation for removal and installation of the pump house		
: OC		
DA SAUDARA	URGENSI	PARAF & TANGGAL
N TEKNIS PPLP		
NFRAS PLP METRO	✓	16-01-2014
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TANAAN		
SANAAN	✓	
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		Kepala Satker ( Paraf dan Tanggal )

# Oriental Consultants Company Limited

In association with

NIHON SUIDO CONSULTANTS Co., Ltd PT INDAH KARYA (Persero) PT. REKA DESINDO MANDIRI

PT. SANITEK KONSULTINDO PT. SILCON ADILARAS PT. ARKONIN ENGINEERING MANGGALA PRATAMA

CONSULTING SERVICES FOR COMPONENT C : URBAN DRAINAGE SYSTEM IMPROVEMENT  
AND WATER SUPPLY WORKS FOR THE WESTERN AREA OF SEMARANG CITY (Under JICA Loan IP No. 534)Project Office Address : Jl. Puri Anjasmoro Blok. M6 No.19 Komp. Puri Anjasmoro - 50144 SEMARANG CENTRAL JAVA  
Telp/Fax. 024 - 7603352

Date: Semarang, January 9<sup>th</sup>, 2014  
Ref: No. OC-Semarang/C1/I/14/1539

To:

PT. ADHI KARYA – PT. PP Joint Venture (JV)

Attn: Mr. Ir. Suroso

Cc: Mr. Verry Hermawan, ST

Mr. Wawan Eko Rianto, ST

Subject: Quantities Calculation for Removal and Installing the Box Panel L3 of the Pump House ✓

Dear Sir,

Referring to your letter dated on January 7<sup>th</sup>, 2014 (Ref No.: 1796/AK-PP/JV/I/2014), concerning the captioned subject, we have already checked your proposed quantities calculation of the works. The quantity (length) of cable NYM 3x2,5 mm<sup>2</sup> (supreme) is not correct. Accordingly, we would like to provide joint check with the Package C1 Contractor to measure the quantity (length) of the cable in the site.

Thank you for your good cooperation.

Yours Faithfully



Cc:

1. Head of Satker P2LP Central Java
2. PPK Pengembangan Infrastruktur PLP Metropolitan
3. Mr. Ir. Mohamad Ali
4. File

Estimation of Additional work for panel Box Lamp Instrumen Displacement in Pump House Building

Item	Volume	Unit	Unit Price	Total Price
Cable NYM 3 x 2,5 ( Supreme )	180	mtr	Rp 24.640	Rp 4.435.200
Pipe Pvc "2" inch	8	mtr	Rp 33.600	Rp 268.800
Knie Pvc "2" Inch	6	pcs	Rp 21.000	Rp 126.000
Duradus 20 mm"	1	pcs	Rp 11.200	Rp 11.200
clamp Pipe	10	pcs	Rp 4.200	Rp 42.000
Aids Material	1	ls	Rp 70.000	Rp 70.000
Cost Removal & Install	1	ls	Rp 280.000	Rp 280.000
TOTAL RAB:				Rp 5.233.200

Semarang, 07 Januari 2014

Satuan Kerja PPLP - Jawa Tengah

Oriental Consultants

Adhi Karya - PP ( JV )

( Sigit Wahyono )

( Ir. Mohamad Ali )

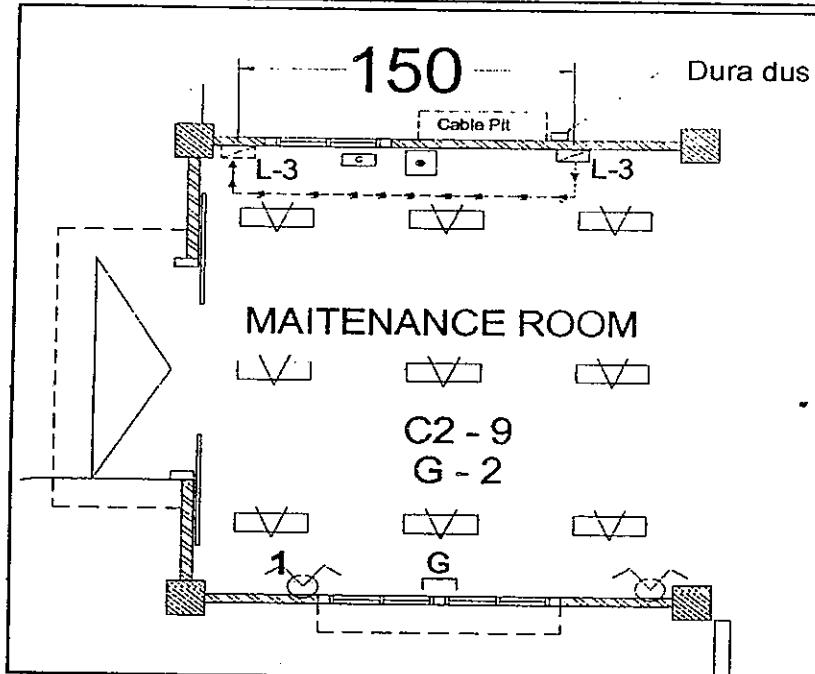
( Mirza Khussud, ST )

ber

work : Removal Box Panel Instrument Lighting  
 : PUMP HOUSE

PT.ADHIA KARYA (Persero) Tbk - PT PEMBANGUNAN PERUMAHAN (Persero)  
 Joint Venture

Sketch In Building

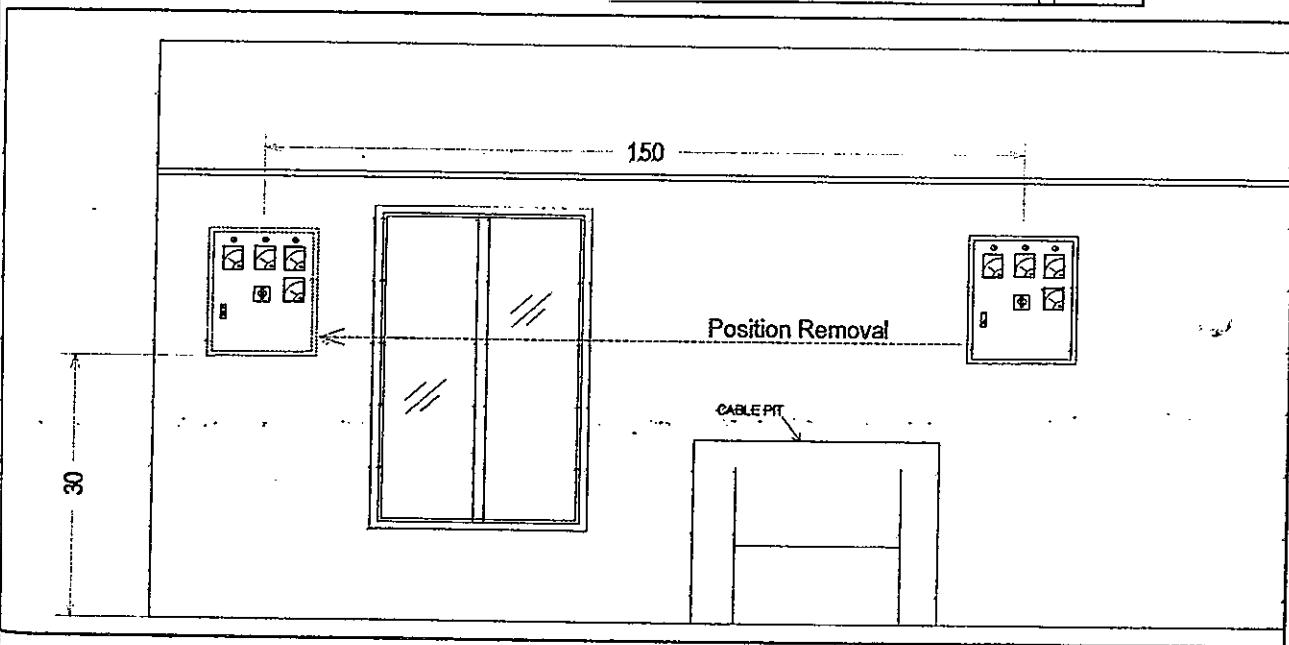


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Position Removal

CABLE PIT



## sketch

## Calculation

## Quantity

## Remarks

NYM 3 x 2,5 mm

$150 + 30 = 180$

mtr

PVC 2 Inch

$4 \text{ m} \times 2 \text{ pcs} = 8$

mtr

Pipe "2" inch

10

Pcs

PVC "2" Inch

6

Pcs

dus 20 mm

1

pcs

Kerja PPLP - Jawa Tengah

Oriental Consultants

Adhi Karya APP (JV)

( Sigit Wahyono )

( Ir. Mohamad Ali )

( Mirza Khussud, ST )

**LEMBAR DISPOSISI**  
**SATUAN KERJA**  
**PENGEMBANGAN PENYEHATAN LINGKUNGAN PERMUKIMAN JAWA TENGAH**  
**TAHUN ANGGARAN 2014**

: 03-02-2014	TANGGAL MENERIMA : 07-02-2014	
: OC-Semarang/C1/II/14/1558	AGENDA NOMOR : 136 ~	
KODE		
: concurrence of quantities calculation of electrical storage building		
:		
:		
: OC		
DA SAUDARA	URGENSI	PARAF & TANGGAL
IN TEKNIS PPLP		
INFRA PLP METRO	✓	15/2/14
INFRA PLP		
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CANAAN		
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To. As. Pelak

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# Oriental Consultants Company Limited

In association with

NIHON SUIDO CONSULTANTS Co., Ltd PT. INDAH KARYA (Persero) PT. REKA DESINDO MANDIRI  
PT. SANITEK KONSULTINDO PT. SILCON ADILARAS PT. ARKONIN ENGINEERING MANGGALA PRATAMA  
CONSULTING SERVICES FOR COMPONENT C : URBAN DRAINAGE SYSTEM IMPROVEMENT  
AND WATER SUPPLY WORKS FOR THE WESTERN AREA OF SEMARANG CITY (Under JICA Loan IP No. 534)  
Project Office Address : Jl. Kesehatan Raya No. 124 – Tanah Mas 50176 SEMARANG, CENTRAL JAVA  
Telp/Fax. 024 - 3566320

Date: Semarang, February 3<sup>rd</sup>, 2014  
Ref: No. OC-Semarang/C1/II/14/1558

To:  
PT. ADHI KARYA – PT. PP Joint Venture (JV)

Attn: Mr. Ir. Suroso  
Cc: Mr. Verry Hermawan, ST  
Mr. Wawan Eko Rianto, ST

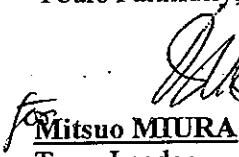
Subject: **Concurrence of Quantities Calculation of Electrical Works for the Storage Building**

Dear Sir,

Refer to your letter dated on January 30<sup>th</sup>, 2014 (Ref. No.1824/AK-PP/JV/I/2014), concerning the captioned subject, the Engineer has checked and approved the Quantities Calculation of Electrical Works for the Storage Building as attached herewith.

Thank you for your good cooperation.

Yours Faithfully,

  
Mitsuo MIURA  
Team Leader

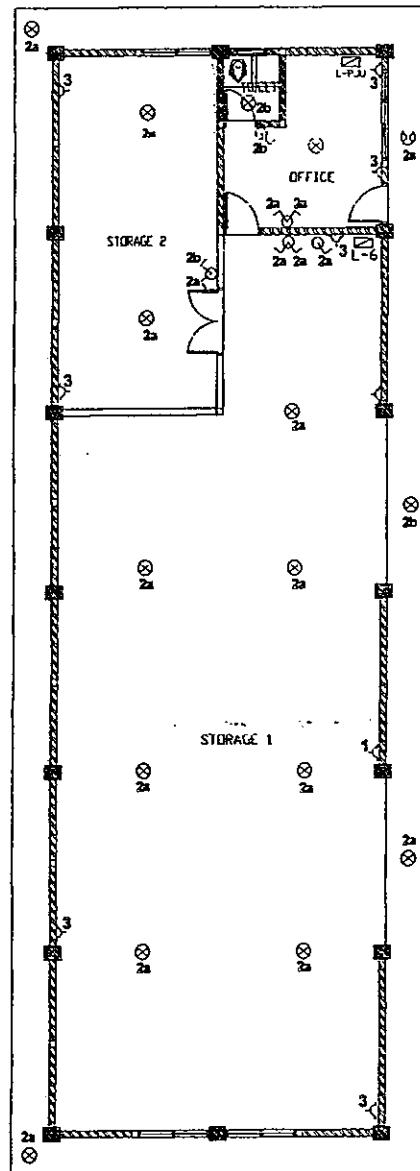


Cc:

1. Head of Satker P2LP Central Java
2. PPK Pengembangan Infrastruktur PLP Metropolitan
3. Mr. Ir. Mohamad Ali
4. File

Description of Work : ELECTRICAL WORK  
Location : Storage Building

Sketch



SCALE : A  
STORAGE

No.	Specification	Quantity	Unit	Remark
1	Type Fitting	16	Pcs	
2	Type of Lamp	15	Pcs	
3	Type of Lamp	1	Pcs	
4	Switch 16 A	16	Pcs	
5	INCOMING JFC 10 P	10 P	Pcs	
6	TERMINAL B 10 P	10 P	Pcs	
7	TELEPHONE SET	1	Pcs	
8	Main MCCB 50AF x 1	1	Pcs	
9	Branch MCB 6AF x 8	6 AF	Pcs	
10	Cable Installation ( For Lamp )	NYM 2 x 2,5 mm <sup>2</sup> In PVC High Impact Conduit Ø20 mm	16	Points
11	Cable Installation ( For Stop Contack )	NYM 3 x 2,5 mm <sup>2</sup> In PVC High Impact Conduit Ø20 mm	9	Points
12	Box Panel	L-6 dan L- PJU	2	Pcs
13	Socket Outlet	16 A	9	Pcs

Satuan Kerja PPLP - Jawa Tengah

Oriental Consultants

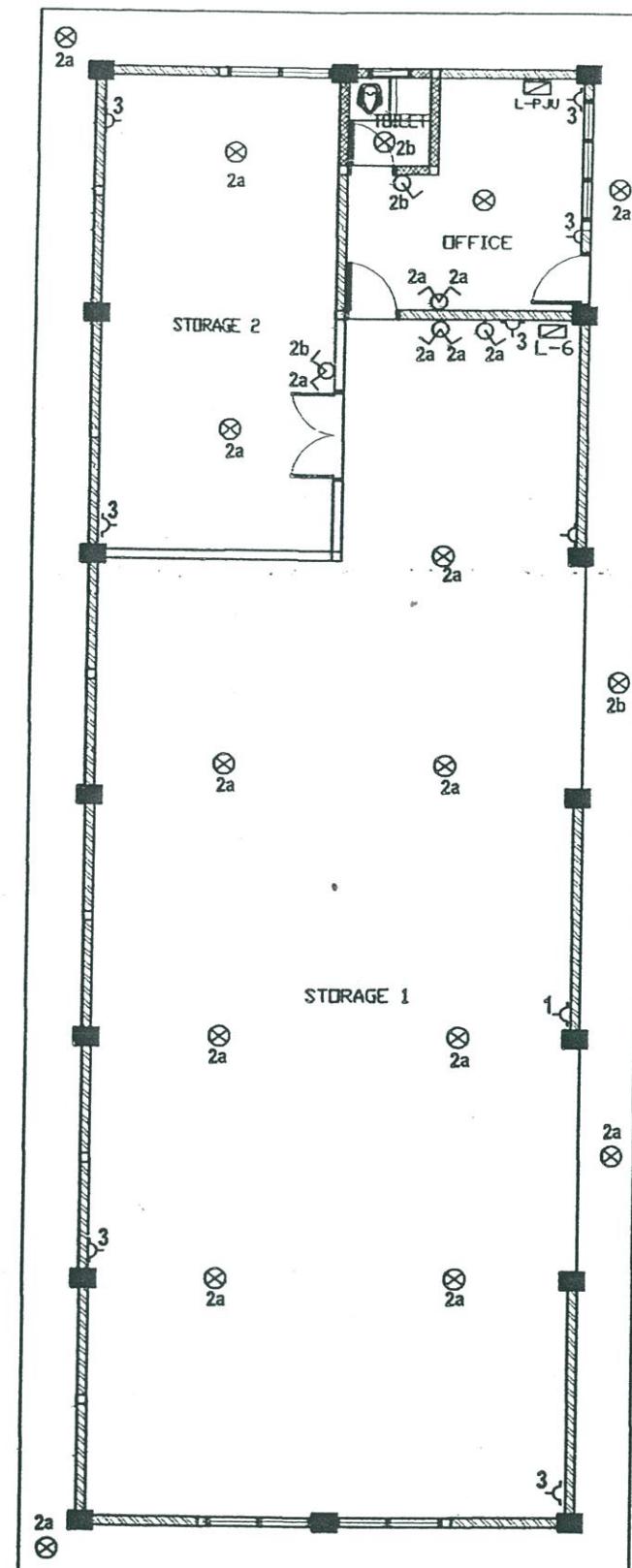
Adhi Karya PP (JV)

Mirza Khussu'udin, ST

( Sigit Wahyono )

( Ir. Mohamad Ali )

( Mirza Khussu'udin, ST )



STORAGE  
SCALE : A

## STORAGE

	L - 6	Specification	STORAGE 1	STORAGE 2	OFFICE	TOILET	TERAS
1	POWER RECEIVING	NYM 3x 2,5 mm <sup>2</sup>					
	DISTRIBUTION B.						
	MAIN MCCB	50 AF x 1					
	BRANCH MCB	6 AF x 8					
2	LIGHTING						
	TYPE - SL	SL 42W/220 V	7	2	1		5
	TYPE - SL	SL 15 W /220 V				1	
3	SOCKET OUTLET						
	16A		5	2	2		
4	TELEPHONE						
	INCOMMING					JFC 10 P	
	TERMINAL B.					10 P	
	TELEPHONE SET					1	

## DRAWING FOR CONSTRUCTION

VERIFIED BY CONSULTANT	SEEN BY KA SATKER P2LP
---------------------------	---------------------------

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENT				PROVINCE CENTRAL JAVA
SHOP DRAWING				PROJECT NAME : INTEGRATED WATER RESOURCES AND FLOOD MANAGEMENT PROJECT FOR SEMARANG CITY
COMPONENT C : URBAN DRAINAGE SYSTEM IMPROVEMENT AND WATER SUPPLY WORKS FOR WESTERN AREA OF SEMARANG CITY PACKAGE C1 : SEMARANG PUMPING STATION AND RETARDING FOND (CIVIL AND ARCHITECTURAL WORK)				DISTRICT SEMARANG CITY
Installation Lamp & Socket Outlet at Storage Building				REFERENCE DRAWING NO.      SHEET NO. C1-PS-OB-5R (RR)      C1-0166
DRAWING NO. AK-PP JV/2010/00004/P2-EL/001R				SHEET NO. 001 & 002
				DATE      CONTRACT NO. 29/01/2014
PREPARED	COMPANY ADHI - PP JV	REPRESENTATIVE MIRZA KHUSSUUD	SIGNATURE	CONTRACT NO.
APPROVED	ORIENTAL	MITSUO MIURA		
	SATKER PPLP	SUHARSONO A. B.		

NO.	DATE	REVISIONS
1	2/11/2013	Revision Design Of Electrical Work

**LEMBAR DISPOSISI**  
**SATUAN KERJA**  
**PENGEMBANGAN PENYEHATAN LINGKUNGAN PERMUKIMAN JAWA TENGAH**  
**TAHUN ANGGARAN 2014**

: 06-02-2014	TANGGAL MENERIMA : 11-02-2014	
: 1841/AK-PP/JV/II/2014	AGENDA NOMOR : 147	
	KODE	
: Quotation of mechanical and electrical works		
gilding		
: PT. Adhi - PP Joiont Venture		
ADA SAUDARA	URGENSI	PARAF & TANGGAL
AN TEKNIS PPLP		
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To. PD. Pelak

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GENERAL CONTRACTOR

PT. ADHI-PP  
JOINT VENTURE, (JV)

Jl. Gayung Kebonsari No. 167A, Surabaya 60231 Tlp. 62-31 8287251, 8291871, Fax 62-31 8290710  
Jl. Pemuda No. B2 Semarang 50133 Tlp. 62-24 3547455, 3547456, Fax. 62-24 3551911

No : 1841/AK-PP/JV/II/2014

Semarang, February 6<sup>th</sup>, 2014

Enclosure : 8 sheets

To : ORIENTAL CONSULTANTS Co. Ltd

Attn : Mr. Mitsuo Miura

CC : Mr. Sugeng, ME  
Mr. Djoko Roosmany  
Mr. Mohamad Ali  
PPK Pengembangan Infrastruktur PLP Metropolitan

**Subject : Quotation of Mechanical and Electrical Works for Storage Building**

Dear Sir,

regarding to your letter No.OC-Semarang/C1/II/14/1558 dated February 3<sup>rd</sup>, 2014 about Concurrence of Quantities Calculation of Electrical Works for Storage Building", herewith we would like to submit Quotation of Mechanical and Electrical Works for Storage Building with total amount Rp. 74,565,982 and will be paid on new item.

Dealing matter above we look forward about your approval and information as soon as possible.

Thank you for attention and cooperation.

Best Regards,

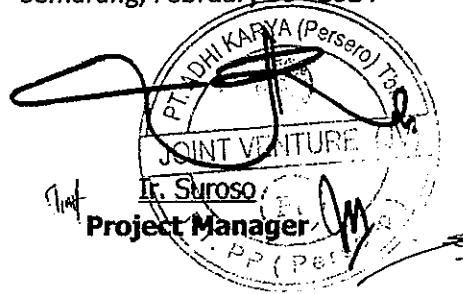
PT ADHI-PP JOINT VENTURE, (JV)

**Suroso**  
Project Manager

**QUOTATION OF MECHANICAL AND ELECTRICAL WORKS FOR STORAGE**

No. Item	Description	Unit	Vol	Rate (Rp)	Amount (Rp)
1	Main MCCB 50AF	Unit	1.00	696,696	696,696
2	Branch MCB 6AF	Unit	8.00	286,160	2,289,280
3	Fitting lamp LS 610 Panasonic	Unit	16.00	69,367	1,109,873
4	Lighting Philip 42 Watt	Unit	15.00	216,367	3,245,506
5	Lighting 15 Watt	Unit	1.00	73,063	73,063
6	Switch 16A	Unit	8.00	106,995	855,960
7	Incoming JFC 10P	Unit	4.00	7,910,490	31,641,960
8	Terminal B 10P	Unit	3.00	2,915,892	8,747,676
9	Box Panel L-6	Unit	1.00	3,703,392	3,703,392
10	Telephone set	set	1.00	742,098	742,098
11	Box Panel PJU	Unit	1.00	3,703,392	3,703,392
12	Installation for lighting	Point	16.00	654,456	10,471,292
13	Installation for socket outlet	Point	9.00	809,533	7,285,794
<b>TOTAL AMOUNT</b>					<b>74,565,982</b>

Semarang, February 06<sup>th</sup> 2014



## UNIT PRICE ANALYSIS

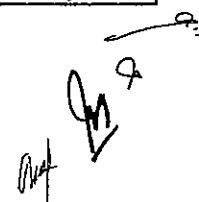
ITEM DESCRIPTION : Main MCCB 50AF  
 QUANTITY : 1.00 Unit  
 UNIT OF WORKS : Unit  
 DIALY/HOURLY OUTPUT : 10.00 Unit/day  
 LOCATION : KOTA SEMARANG

No	Uraian	Volume	Unit	Rate		Amount	
				Foreign	Local (Rp)	Foreign	Local (Rp)
I	<b>MATERIALS</b>						
1	Main MCCB 50AF Ex. Scheider	1.0000	Unit		650,000.00		650,000.00
II	<b>LABOURS</b>						
1	Labours	0.8000	Hour		7,500.00		6,000.00
2	Skill Labours	0.8000	Hour		8,500.00		7,200.00
3	Foreman	0.0800	Hour		9,000.00		720.00
III	<b>PLANT AND EQUIPMENT</b>						
IV	<b>Sub Total</b>						663,520.00
V	<b>Overhead and profit</b>						33,176.00
VI	<b>Total</b>						696,696.00
VII	<b>Unit Price</b>						696,696.00

## UNIT PRICE ANALYSIS

ITEM DESCRIPTION : Branch MCB 6AF  
 QUANTITY : 8.00 Unit  
 UNIT OF WORKS : Unit  
 DIALY/HOURLY OUTPUT : 6.00 Unit/day  
 LOCATION : KOTA SEMARANG

No	Uraian	Volume	Unit	Rate		Amount	
				Foreign	Local (Rp)	Foreign	Local (Rp)
I	<b>MATERIALS</b>						
1	Branch MCB 6AF Ex. Scheider	1.0000	Unit		250,000.00		250,000.00
II	<b>LABOURS</b>						
1	Labours	1.3333	Hour		7,500.00		10,000.00
2	Skill Labours	1.3333	Hour		8,500.00		11,333.33
3	Foreman	0.1333	Hour		9,000.00		1,200.00
III	<b>PLANT AND EQUIPMENT</b>						
IV	<b>Sub Total</b>						272,533.33
V	<b>Overhead and profit</b>						13,626.67
VI	<b>Total</b>						286,160.00
VII	<b>Unit Price</b>						286,160.00


  
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### UNIT PRICE ANALYSIS

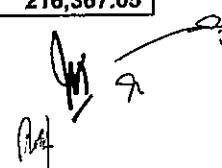
ITEM DESCRIPTION : Fitting lamp LS 610 Panasonic  
 QUANTITY : 16.00 Unit  
 UNIT OF WORKS : Unit  
 DAILY/HOURLY OUTPUT : 10.00 Unit/day  
 LOCATION : KOTA SEMARANG

No	Uraian	Volume	Unit	Rate		Amount	
				Foreign	Local (Rp)	Foreign	Local (Rp)
I	MATERIALS						
1	Fitting lamp LS 610 Ex. Panasonic	1.0000	Unit		35,000.00		35,000.00
II	LABOURS						
1	Labours	0.8000	Hour		7,500.00		6,000.00
2	Skill Labours	0.8000	Hour		8,500.00		6,800.00
3	Foreman	0.0800	Hour		9,000.00		720.00
III	PLANT AND EQUIPMENT						
1	Rent Scafolding	0.3509	Set/month		50,000.00		17,543.86
IV	Sub Total						66,063.86
V	Overhead and profit						3,303.19
VI	Total						69,367.05
VII	Unit Price						69,367.05

### UNIT PRICE ANALYSIS

ITEM DESCRIPTION : Lighting Philip 42 Watt  
 QUANTITY : 15.00 Unit  
 UNIT OF WORKS : Unit  
 DAILY/HOURLY OUTPUT : 10.00 Unit/day  
 LOCATION : KOTA SEMARANG

No	Uraian	Volume	Unit	Rate		Amount	
				Foreign	Local (Rp)	Foreign	Local (Rp)
I	MATERIALS						
1	Lighting 42 Watt Ex. Philips	1.0000	Unit		175,000.00		175,000.00
II	LABOURS						
1	Labours	0.8000	Hour		7,500.00		6,000.00
2	Skill Labours	0.8000	Hour		8,500.00		6,800.00
3	Foreman	0.0800	Hour		9,000.00		720.00
III	PLANT AND EQUIPMENT						
1	Rent Scafolding	0.3509	Set/month		50,000.00		17,543.86
IV	Sub Total						206,063.86
V	Overhead and profit						10,303.19
VI	Total						216,367.05
VII	Unit Price						216,367.05



### UNIT PRICE ANALYSIS

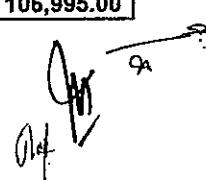
ITEM DESCRIPTION : Lighting 15 Watt  
 QUANTITY : 1.00 Unit  
 UNIT OF WORKS : Unit  
 DAILY/HOURLY OUTPUT : 5.00 Unit/day  
 LOCATION : KOTA SEMARANG

No	Uraian	Volume	Unit	Rate		Amount	
				Foreign	Local (Rp)	Foreign	Local (Rp)
I	<b>MATERIALS</b>						
1	Lighting 15 Watt Ex. Philips	1.0000	Unit		25,000.00		25,000.00
II	<b>LABOURS</b>						
1	Labours	1.6000	Hour		7,500.00		12,000.00
2	Skill Labours	1.6000	Hour		8,500.00		13,600.00
3	Foreman	0.1600	Hour		9,000.00		1,440.00
III	<b>PLANT AND EQUIPMENT</b>						
1	Rent Scafolding	0.3509	Set/month		50,000.00		17,543.86
IV	<b>Sub Total</b>						69,583.86
V	<b>Overhead and profit</b>						3,479.19
VI	<b>Total</b>						73,063.05
VII	<b>Unit Price</b>						73,063.05

### UNIT PRICE ANALYSIS

ITEM DESCRIPTION : Switch 16A  
 QUANTITY : 8.00 Unit  
 UNIT OF WORKS : Unit  
 DAILY/HOURLY OUTPUT : 8.00 Unit/day  
 LOCATION : KOTA SEMARANG

No	Uraian	Volume	Unit	Rate		Amount	
				Foreign	Local (Rp)	Foreign	Local (Rp)
I	<b>MATERIALS</b>						
1	Switch 16A Ex. Clipsal	1.0000	Unit		85,000.00		85,000.00
II	<b>LABOURS</b>						
1	Labours	1.0000	Hour		7,500.00		7,500.00
2	Skill Labours	1.0000	Hour		8,500.00		8,500.00
3	Foreman	0.1000	Hour		9,000.00		900.00
III	<b>PLANT AND EQUIPMENT</b>						
IV	<b>Sub Total</b>						101,900.00
V	<b>Overhead and profit</b>						5,095.00
VI	<b>Total</b>						106,995.00
VII	<b>Unit Price</b>						106,995.00


  
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### UNIT PRICE ANALYSIS

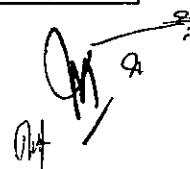
ITEM DESCRIPTION : Incoming JFC 10P  
 QUANTITY : 4.00 Unit  
 UNIT OF WORKS : Unit  
 DAILY/HOURLY OUTPUT : 4.00 Unit/day  
 LOCATION : KOTA SEMARANG

No	Uraian	Volume	Unit	Rate		Amount	
				Foreign	Local (Rp)	Foreign	Local (Rp)
I	MATERIALS						
1	Incoming JFC 10P Ex. Panasonic	1.0000	Unit		7,500,000.00		7,500,000.00
II	LABOURS						
1	Labours	2.0000	Hour		7,500.00		15,000.00
2	Skill Labours	2.0000	Hour		8,500.00		17,000.00
3	Foreman	0.2000	Hour		9,000.00		1,800.00
III	PLANT AND EQUIPMENT						
IV	Sub Total						7,533,800.00
V	Overhead and profit						376,690.00
VI	Total						7,910,490.00
VII	Unit Price						7,910,490.00

### UNIT PRICE ANALYSIS

ITEM DESCRIPTION : Terminal B 10P  
 QUANTITY : 3.00 Unit  
 UNIT OF WORKS : Unit  
 DAILY/HOURLY OUTPUT : 5.00 Unit/day  
 LOCATION : KOTA SEMARANG

No	Uraian	Volume	Unit	Rate		Amount	
				Foreign	Local (Rp)	Foreign	Local (Rp)
I	MATERIALS						
1	Terminal B 10P	1.0000	Unit		2,750,000.00		2,750,000.00
II	LABOURS						
1	Labours	1.6000	Hour		7,500.00		12,000.00
2	Skill Labours	1.6000	Hour		8,500.00		13,600.00
3	Foreman	0.1600	Hour		9,000.00		1,440.00
III	PLANT AND EQUIPMENT						
IV	Sub Total						2,777,040.00
V	Overhead and profit						138,852.00
VI	Total						2,915,892.00
VII	Unit Price						2,915,892.00


  
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### UNIT PRICE ANALYSIS

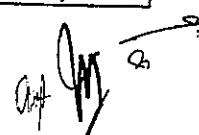
ITEM DESCRIPTION : Box Panel L-6  
 QUANTITY : 1.00 Unit  
 UNIT OF WORKS : Unit  
 DAILY/HOURLY OUTPUT : 5.00 Unit/day  
 LOCATION : KOTA SEMARANG

No	Uraian	Volume	Unit	Rate		Amount	
				Foreign	Local (Rp)	Foreign	Local (Rp)
I	<b>MATERIALS</b>						
1	Box Panel L-6	1.0000	Unit		3,500,000.00		3,500,000.00
II	<b>LABOURS</b>						
1	Labours	1.6000	Hour		7,500.00		12,000.00
2	Skill Labours	1.6000	Hour		8,500.00		13,600.00
3	Foreman	0.1600	Hour		9,000.00		1,440.00
III	<b>PLANT AND EQUIPMENT</b>						
IV	<b>Sub Total</b>						3,527,040.00
V	<b>Overhead and profit</b>						176,352.00
VI	<b>Total</b>						3,703,392.00
VII	<b>Unit Price</b>						3,703,392.00

### UNIT PRICE ANALYSIS

ITEM DESCRIPTION : Telephone set  
 QUANTITY : 1.00 set  
 UNIT OF WORKS : set  
 DAILY/HOURLY OUTPUT : 20.00 Unit/day  
 LOCATION : KOTA SEMARANG

No	Uraian	Volume	Unit	Rate		Amount	
				Foreign	Local (Rp)	Foreign	Local (Rp)
I	<b>MATERIALS</b>						
1	Telephone set Ex. Panasonic	1.0000	set		700,000.00		700,000.00
II	<b>LABOURS</b>						
1	Labours	0.4000	Hour		7,500.00		3,000.00
2	Skill Labours	0.4000	Hour		8,500.00		3,400.00
3	Foreman	0.0400	Hour		9,000.00		360.00
III	<b>PLANT AND EQUIPMENT</b>						
IV	<b>Sub Total</b>						706,760.00
V	<b>Overhead and profit</b>						35,338.00
VI	<b>Total</b>						742,098.00
VII	<b>Unit Price</b>						742,098.00


  
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### UNIT PRICE ANALYSIS

ITEM DESCRIPTION : Box Panel PJU  
 QUANTITY : 1.00 Unit  
 UNIT OF WORKS : Unit  
 DIALY/HOURLY OUTPUT : 5.00 unit/day  
 LOCATION : KOTA SEMARANG

No	Uraian	Volume	Unit	Rate		Amount	
				Foreign	Local (Rp)	Foreign	Local (Rp)
I	MATERIALS						
1	Box Panel PJU	1.0000	Unit		3,500,000.00		3,500,000.00
II	LABOURS						
1	Labours	1.6000	Hour		7,500.00		12,000.00
2	Skill Labours	1.6000	Hour		8,500.00		13,600.00
3	Foreman	0.1600	Hour		9,000.00		1,440.00
III	PLANT AND EQUIPMENT						
IV	Sub Total						3,527,040.00
V	Overhead and profit						176,352.00
VI	Total						3,703,392.00
VII	Unit Price						3,703,392.00

### UNIT PRICE ANALYSIS

ITEM DESCRIPTION : Installation for lighting  
 QUANTITY : 16.00 Point  
 UNIT OF WORKS : Point  
 DIALY/HOURLY OUTPUT : 0.44 Point/day  
 LOCATION : KOTA SEMARANG

No	Uraian	Volume	Unit	Rate		Amount	
				Foreign	Local (Rp)	Foreign	Local (Rp)
I	MATERIALS						
1	Cable NYM 2 x 2.5mm Ex. Supreme	8.9688	Unit		25,000.00		224,218.75
2	Tee dos	1.0000	unit		10,000.00		10,000.00
3	Pvc pipe Ø 3/4"	5.0000	m		9,500.00		47,500.00
II	LABOURS						
1	Labours	18.2857	Hour		7,500.00		137,142.86
2	Skill Labours	18.2857	Hour		8,500.00		155,428.57
3	Foreman	1.8286	Hour		9,000.00		16,457.14
III	PLANT AND EQUIPMENT						
1	Rent Scafolding	0.3509	Set/month		50,000.00		17,543.86
2	Tools	1.0000	Ls		15,000.00		15,000.00
IV	Sub Total						623,291.18
V	Overhead and profit						31,164.56
VI	Total						654,455.74
VII	Unit Price						654,455.74

## UNIT PRICE ANALYSIS

**ITEM DESCRIPTION** : Installation for socket outlet  
**QUANTITY** : 9.00 Point  
**UNIT OF WORKS** : Point  
**DAILY/HOURLY OUTPUT** : 0.78 Point/day  
**LOCATION** : KOTA SEMARANG

No	Uraian	Volume	Unit	Rate		Amount	
				Foreign	Local (Rp)	Foreign	Local (Rp)
I	<b>MATERIALS</b>						
1	Cable NYM 2 x 2.5mm Ex. Supreme	15.9444	m		25,000.00		398,611.11
2	Socket outlet 16A Ex. Clipsal	1.0000	unit		80,000.00		80,000.00
3	Pvc pipe Ø 3/4"	8.0000	m		9,500.00		76,000.00
4	Inbow dos	1.0000	Unit		10,000.00		10,000.00
II	<b>LABOURS</b>						
1	Labours	10.2857	Hour		7,500.00		77,142.86
2	Skill Labours	10.2857	Hour		8,500.00		87,428.57
3	Foreman	1.0286	Hour		9,000.00		9,257.14
III	<b>PLANT AND EQUIPMENT</b>						
1	Rent Scafolding	0.3509	Set/month		50,000.00		17,543.86
2	Tools	1.0000	Ls		15,000.00		15,000.00
IV	<b>Sub Total</b>						770,983.54
V	<b>Overhead and profit</b>						38,549.18
VI	<b>Total</b>						809,532.72
VII	<b>Unit Price</b>						809,532.72

