



PT. TRANSGASINDO ENGINEERING DIRECTORATE

ENGINEERING DIRECTORATE

PROJECT TITLE : Lightning Protection System Repair

WORKING SEQUENCE																							
Class	Activity Number	Start Date	Finish Date																				
Development and Reinforcement																							
<p><u>Duty Description</u> :</p> <table border="1"><tbody><tr><td>1</td><td></td></tr><tr><td>2</td><td></td></tr><tr><td>3</td><td></td></tr><tr><td>4</td><td></td></tr><tr><td>5</td><td></td></tr><tr><td>6</td><td></td></tr><tr><td>7</td><td></td></tr><tr><td>8</td><td></td></tr><tr><td>9</td><td></td></tr><tr><td>10</td><td></td></tr></tbody></table>				1		2		3		4		5		6		7		8		9		10	
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9																							
10																							
Date : _____		Approved by : _____																					
Signature : _____																							

**PT. TRANSGASINDO ENGINEERING DIRECTORATE**  
**ENGINEERING DIRECTORATE**

PROJECT TITLE :      **Lightning Protection System Repair**

<b>JUSTIFICATION</b>			
	Activity Number	Start Date	Finish Date
<b>Development and Reinforcement</b>			
<u>Justification</u> :	1		
	2		
	3		
	4		
	5		
	6		
Date : _____		Approved by : _____	
Signature : _____			

# Time Table

PT. TRANSGASINDO ENGINEERING DIRECTORATE

Lightning Protection System Repair

No.	Kegiatan Rincian Kegiatan																
		I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
1	Melakukan Identifikasi Kebutuhan																
2	Melaksanakan Pengumpulan data, Survey dan Validasi Data																
3	Design																
4	Koordinasi dengan operasi dan third parties pra tender																
5	Tender																
6	Verifikasi proposal kontraktor																
7	Koordinasi dengan operasi dan third parties pasca tender																
8	Pengadaan Material dan Eksekusi Lapangan																
9	QA/QC dan Evaluasi																
10	Commisioning dan Implementasi																

**RINCIAN OPERATING EXPENDITURE (OPEX)****Lightning Protection System Repair****SPPD**

NO	URAIAN	EB	SATUAN	VOLUME	HARGA SATUAN (Rp)	TOTAL (Rp)
1	Aji Tunggul P		hk	30	130,000	3,900,000
2	STM/D3		hk	30	130,000	3,900,000
	Dibulatkan					7,800,000
						7,800,000

**Sewa Mobil**

NO	URAIAN	EB	SATUAN	VOLUME	HARGA SATUAN (Rp)	TOTAL (Rp)
1	4 WD		ls	30	500,000	15,000,000
						-
	Dibulatkan					15,000,000
						15,000,000

**Bensin/ Solar**

NO	URAIAN	EB	SATUAN	VOLUME	HARGA SATUAN (Rp)	TOTAL (Rp)
1	4 WD		hk	30	150,000	4,500,000
						-
	Dibulatkan					4,500,000
						4,500,000

0

NO	URAIAN	EB	SATUAN	VOLUME	HARGA SATUAN (Rp)	TOTAL (Rp)
						-
						-
	Dibulatkan					-
						-

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**CAPITAL EXPENDITURE**

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**Lightning Protection System Repair**

<b>NO</b>	<b>URAIAN PEKERJAAN</b>	<b>JUMLAH (Rp)</b>
1	<b>Listrik</b>	
	Arrester Listrik TK1	403,305,000
	Arrester Listrik TK2	234,465,000
	Arrester Listrik TK3	92,970,000
	Box Arrester	9,352,800
	Kabel NYAF 1X10mm2	6,720,000
	MCB TK2	3,361,200
2	<b>Telekomunikasi</b>	
	Arrester Telephone/ PABX	46,215,000
	Kabel NYAF 1X2.5mm2	397,500
	Kabel NYAF 1X10mm2	420,000
3	<b>Control Room</b>	
	Arrester Control	43,200,000
	Kabel NYAF 1X2.5mm2	3,180,000
	Box Arrester	9,352,800
4	<b>Arrester jaringan Data</b>	
	Arrester Data	56,250,000
	Arrester Telepon	18,855,000
	Kabel NYAF 1X2.5mm2	2,385,000
	<b>GRAND TOTAL Rp.</b>	<b>1,125,819,453</b>

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## DESIGN

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Hyperlink to the drawing