

PT. TRANSGASINDO ENGINEERING DIRECTORATE  
ENGINEERING DIRECTORATE

PROJECT TITLE : **Lightning Protection System Maintenance**

**ACTIVITY FORM**

Category	Activity Number	Start Date	Finish Date
Development and Reinforcement			
<b>Description</b>			
<p>1. Maintenance 13 Location of TGI Lightning Protection System's Property like as Office Building, Station, Tower, Computer-Communication Equipment of Grissik Station, Radio Repeater SV 1103, Sipin Office, Radio Repeater Sakernan, SV 1203 (Pelabuhan Dagang), SV 1206, SV 1303 (Ukui), SV 1306, Radio Repeater SV 1306, Minas, Duri Station</p> <p>2. Repair and Change new one of defect equipment</p>			
<b>Status</b>		<b>Activity Coordinator</b>	<b>Coordinator Sign / Date</b>
<input checked="" type="checkbox"/> Open <input type="checkbox"/> Close		System Planning & Project Manager	

**RESOURCES**

**I. PERSONNEL**

No	Person in Charge	Quantity	Man-day(s)
1	Aji Tunggal P	1	30
2	STM/D3	1	30

**II. OPEX**  
Operating Exp. (In thousands)

No	Item	Unit	Volume	Budget
1	SPPD	ls	1	7,800
2	Sewa Mobil	ls	1	15,000
3	Bensin/ Solar	ls	1	4,500
				-
<b>TOTAL</b>				<b>27,300</b>

**COST CENTER**  
Bus Dev

**III. CAPEX**  
Capital Exp. (In thousands)

No	Item	Budget
1	Lokasi Sipin	42,561,750
2	Lokasi Puskom	42,561,750
3	Lokasi Grissik	37,842,750
4	Lokasi Sakernan - RR Sakernan	37,842,750
5	Lokasi Duri	44,376,750
6	Lokasi RR 1103	37,842,750
7	Lokasi RR 1203 PLD	37,842,750
8	Lokasi SV 1206 - RR 1206	62,345,250
9	Lokasi RR 1303 Ukui	37,842,750
10	Lokasi SV 1306 RR 1306	62,345,250
11	Lokasi RR Minas	44,376,750
<b>TOTAL</b>		<b>487,781,250</b>

**IV. FACILITY**

No	Item	Unit	Volume	Day(s)
1	- Continuity Tester	1	1	30
2	- Earth Resistance Meter	1	1	30
3	- Arrester Tester	1	1	30
4	- Toolkit	1	1	30
5	- Komputer			

**CONTRACTOR(S)**

No	Company	Status*	Director/Cells	Site Mgr./Cells
1	PT Pratiwi Putri Sulung	PT	Agus Salim	Badrudin

\* Indicate as Main or Sub or else

**PT. TRANSGASINDO ENGINEERING DIRECTORATE**

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PROJECT TITLE : **Lightning Protection System Maintenance**

<b>WORKING SEQUENCE</b>																							
Class	Activity Number	Start Date	Finish Date																				
<b>Development and Reinforcement</b>																							
<p><u>Duty Description</u> :</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%; text-align: center; vertical-align: top;">1</td> <td style="border: 1px solid black; padding: 5px;">                     Join IIOGE Seminars                      - Actively involve in seminars held by IIOGE in order to update current practise and broaden access to world experts                 </td> </tr> <tr> <td style="text-align: center; vertical-align: top;">2</td> <td style="border: 1px solid black; padding: 5px;">                     Join IIOGE Community                      - Register TGI as part of the community so that TGI might be known worldwide and understood as active IIOGE member                 </td> </tr> <tr> <td style="text-align: center; vertical-align: top;">3</td> <td style="border: 1px solid black; padding: 5px;">                     Study process                      - Observe international company involvement and understand TGI position in the BCG matrix                 </td> </tr> <tr> <td style="text-align: center; vertical-align: top;">4</td> <td style="border: 1px solid black; height: 40px;"></td> </tr> <tr> <td style="text-align: center; vertical-align: top;">5</td> <td style="border: 1px solid black; height: 40px;"></td> </tr> <tr> <td style="text-align: center; vertical-align: top;">6</td> <td style="border: 1px solid black; height: 40px;"></td> </tr> <tr> <td style="text-align: center; vertical-align: top;">7</td> <td style="border: 1px solid black; height: 40px;"></td> </tr> <tr> <td style="text-align: center; vertical-align: top;">8</td> <td style="border: 1px solid black; height: 40px;"></td> </tr> <tr> <td style="text-align: center; vertical-align: top;">9</td> <td style="border: 1px solid black; height: 40px;"></td> </tr> <tr> <td style="text-align: center; vertical-align: top;">10</td> <td style="border: 1px solid black; height: 40px;"></td> </tr> </table>				1	Join IIOGE Seminars - Actively involve in seminars held by IIOGE in order to update current practise and broaden access to world experts	2	Join IIOGE Community - Register TGI as part of the community so that TGI might be known worldwide and understood as active IIOGE member	3	Study process - Observe international company involvement and understand TGI position in the BCG matrix	4		5		6		7		8		9		10	
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10																							
Date : _____		Approved by : _____																					
Signature : _____																							

**PT. TRANSGASINDO ENGINEERING DIRECTORATE**  
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PROJECT TITLE : Lightning Protection System Maintenance

JUSTIFICATION			
	Activity Number	Start Date	Finish Date
Development and Reinforcement			
<p><u>Justification</u> :</p>	<p>1 Satisfy corporate goal Corporate goal to transform TGI as international player will be promoted by participating internationally</p> <p>2 Enhance understanding on operability issues Study to other IIOGE members that influence international standards is promoting understanding on standards develop and governs internationally</p> <p>3 Provide access to international community As part of the member, TGI will shorten distance of individuals responsible in his or her field on access to international community.</p> <p>4 Possibilities to the development of international practice The study will open a chance for TGI to take part on international development of practical practice in gas industries</p> <p>5</p> <p>6</p>		
<p>Date : _____ Approved by : _____</p> <p style="margin-left: 300px;">Signature : _____</p>			

# Time Table

PT. TRANSGASINDO ENGINEERING DIRECTORATE

Lightning Protection System Maintenance

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 Maintenance****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 Maintenance**

<b>NO</b>	<b>URAIAN PEKERJAAN</b>	<b>J U M L A H (Rp)</b>
1	Lokasi Sipin	35,175,000
2	Lokasi Puskom	35,175,000
3	Lokasi Grissik	31,275,000
4	Lokasi Sakernan - RR Sakernan	31,275,000
5	Lokasi Duri	36,675,000
6	Lokasi RR 1103	31,275,000
7	Lokasi RR 1203 PLD	31,275,000
8	Lokasi SV 1206 - RR 1206	51,525,000
9	Lokasi RR 1303 Ukui	31,275,000
10	Lokasi SV 1306 RR 1306	51,525,000
11	Lokasi RR Minas	36,675,000
	<b>GRAND TOTAL Rp.</b>	<b>487,781,250</b>

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## DESIGN

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Hyperlink to the drawing