



Sui Southern Gas Company Limited

Ref : RA/21/18

Dated : 6 March 2017

**The Registrar
Oil & Gas Regulatory Authority
ZTE Plaza near PIA Booking Office
Blue Area
Islamabad.**

Subject: PETITION FOR ESTIMATED REVENUE REQUIREMENT FY 2017-18

Dear Sir,

SSGC's Estimated Revenue Requirement (ERR) Petition for FY 2017-18 as required under Section 8(1) of OGRA Ordinance 2002 and Rule 4(2) of Natural Gas Tariff Rules 2002 is enclosed for the Authority's consideration and necessary approval. SSGC through its letter reference RA/21/18 dated 31 January 2017 has requested the Authority to extend the submission date of the Petition for Estimated Revenue Requirement for FY 2017-18 till 28 Feb 2017. Additionally, please also refer to our letter RA/21/18 dated: 17 Feb 2017.

An increase of Rs. 42,163 million (Rs 114.57 per MMBTU) in SSGC's prescribed prices for FY 2017-18 has been estimated/ worked-out, in order to meet the projected revenue requirement for the year under review.

In line with the Sindh High Court (SHC) decision dated: 25 Nov 2016 dismissing all the stay orders granted to the Company from FY 2010-11 to FY 2015-16, revenue from Meter Manufacturing Profit, Late Payment Surcharge, Sale of Condensate, LPG and NGL are treated as operating incomes in the instant petition.

However, an appeal in the Supreme Court of Pakistan has been filed against the above decision of SHC and in case of favorable decision; the company reserve the right to amend the instant petition in the light of the decision.

A brief on recent developments on LNG front are outlined in Annexure-D / Section D of the Petition.

All the costs related to LNG/RLNG business (including the LSA and other charges) are to be ring-fenced and recovered from RLNG customers as per decision of GoP duly acknowledged by the Authority in DERR FY 2016-17 dated: 6 Oct 2016. In addition to it the financial cost incurred in creation of RLNG infrastructure has been allowed as admissible expense in the revenue requirement of the utility companies as per ECC decision. Estimates for FY 2017-18 related to RLNG business are therefore outlined separately under attachment I of Annexure-D. Available details of RLNG-III project which is recently envisaged by the Federal Government are also outlined in Annexure-D.



We understand that the Authority will decide the UFG benchmark in the light of the UFG study being conducted by the consultant M/S KPMG considering the relevant factors and ground realities. Based on the updated Draft proposal of Consultant study a UFG benchmark of 9.05% has been assumed comprising of 5% fixed allowance against technical losses usually inherent to gas supply network and 4.05% for impact of variable factors i.e. adjustment of bulk to retail ratio, law & order affected areas and assuming that Company will succeed in achieving 100% Key Monitoring Indicators (KMIIs).

The draft UFG Consultant study did not consider allowance on account of theft by non-consumers on the premise that if allowed, it becomes a window for shifting the burden to good consumers. However, for the purposes of instant petition, 9,273 mmcft (9 bcf) is claimed under the head of theft by non-consumers based on ECC decision dated 20 November 2014.

The application form on the prescribed format is enclosed along-with the following supporting statements/ schedules:

- Section-A: Tariff working and Financial Statements
- Section-B: Supporting schedules to Financial Statements
- Section-C: Tariff workings, Financial Statements & Other Schedules (As per OGRA formats).
- Section-D: Project details / addition to the Fixed Operating Assets (Rate Base).
- Section-E: Details of Transmission & Distribution Cost.

The filing fee of Rs.1,000,000/ (Rupees one million only) is being paid through enclosed demand draft # 103240094 dated: 28 Nov 2016.

We would therefore request the Authority to approve a price increase of Rs. 114.57 per MMBTU w.e.f. 1 July 2017 in SSGC's tariff for FY 2017/18, please

Yours faithfully,


Shoaib Ahmed
General Manager (RA)
(For Managing Director)

CC: Mr. Shehzad Iqbal, Executive Director (Gas) OGRA
Ms. Misbah Yaqub, Executive Director (Finance) OGRA



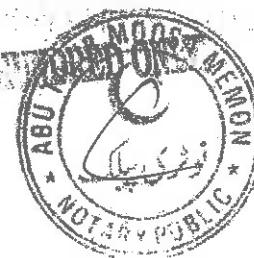
MUHAMMAD JINAIQ Stamp Vendor

Opposite NCL, Sector 10, Model Town, Lahore
Gulshan-e-Iqbal, Karachi, Pakistan

41425 8/9/2016

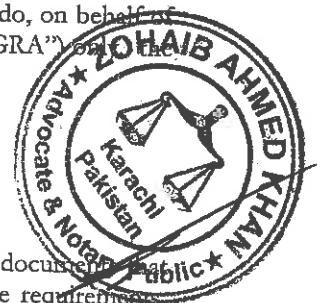
Shoaib Ahmed
General Manager
SUI SOUTHERN GAS COMPANY LIMITED
Karachi, Pakistan

SUB POWER OF ATTORNEY



Know all men by these presents that SUI SOUTHERN GAS COMPANY LIMITED, a Public Limited Company, incorporated under the Companies Ordinance, 1984, and having its registered office at ST.4/B, Block-14, Sir Shah Muhammad Suleman Road, Gulshan-e-Iqbal, Karachi, acting through its authorized representative, the Managing Director Mr. Khalid Rahman who is authorized vide General Power of Attorney Registered No. 42 Book No. IV Sub-Registrar dated 04.02.2015 2015 & M.F. Roll No: 8885/9862 dated 18.02.2015 Gulshan-e-Iqbal Town Karachi do hereby nominate, constitute, appoint and ordain Mr. Shoaib Ahmed s/o Muhammad Ahmed , holding CNIC No.42101-2726152-2, General Manager (RA) of the Company (hereinafter called "the Attorney") with effect from 8 September 2016

to be the true and lawful Attorney of the Company, who is duly authorized to do, on behalf of the Company, in the matters pertaining to Oil & Gas Regulatory Authority ("OGRA") only the following:

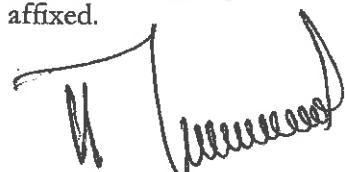


- 1 To represent the Company in all proceedings before OGRA.
- 2 To file and appear in proceedings, sign applications, petitions and other documents that may be required and to defend the Company's petition for its revenue requirements, tariff licensing and other ancillary matters before OGRA.
- 3 To sign and file intervention, requests, comments, affidavits, furnish undertaking and documents that may be required in the matter before the OGRA,
- 4 To do generally all acts and things, which are necessary or requisite or expedient to carry out the several acts, deeds and things aforesaid or incidental thereto, as provided and mandated through this power of attorney.

- 5 AND I declare that my Attorney shall be entitled to continue to act under this Power of Attorney and to exercise all the powers hereby conferred until this Power of Attorney is recalled by me by written notice sent by us and received by my Attorney and that although I may from time to time myself do or attend to or authorize others to do or attend to certain or all of the acts and matters in regard to which my Attorney is hereby authorized to act for us and on my behalf, no implication of total or partial revocation of the powers conferred on my Attorney shall thereby arise.

And the Company doth hereby agree to ratify and confirm all and whatsoever the said Attorney shall lawfully do or cause to be done by virtue of this Power-of-Attorney. It is also being declared that all acts, deeds and transactions of the Attorney shall, notwithstanding any prior revocation or cancellation of this Power-of-Attorney be valid and effectual, unless such revocation shall have been previously notified to the person or persons acting or dealing with the Attorney And I consent to and expressly authorize the registration hereof before the concerned Registrar of assurances.

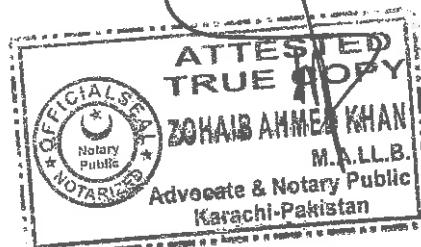
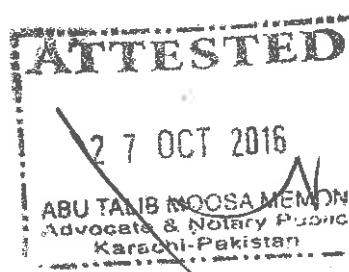
IN WITNESS WHEREOF the Executants of this Power-of-Attorney have set his hands unto this document in the presence of following witnesses on this _____ day of _____ and the common seal of Sui Southern Gas Company Limited is hereunto duly affixed.


(EXECUTANT)
Khalid Rahman
Managing Director
Sui Southern Gas Company Ltd.

WITNESSES:

1. Bajar Bahram Ansari 
CNIC No. 42201-4627030-7

2. SYED AMIR JALIL 
CNIC No. 42201-7464715-3



03 MAR 2017

**SUI SOUTHERN GAS COMPANY LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
For FY 2017-18**

LIST OF CONTENTS	
DESCRIPTION	ANNEXURE / SECTION
Application Form	Schedule-I
Statement Showing Revenue Requirement	Annexure-A
Five Year Capital Expenditure Plan	Annexure-B
Prescribed Prices	Annexure-C
Working For Tariff Adjustment Required & Financial Statements	Section-A
Supporting Schedules To Financial Statements	Section-B
OGRA Prescribed Formats / Other Details	Section-C
Projects Details / Addition of Fixed Assets	Section-D
Details of Transmission and Distribution Cost	Section-E

SCHEDULE - I

OIL AND GAS REGULATORY AUTHORITY
Application Form

1	Name of the Petitioner:	Sui Southern Gas Company Limited																																							
2	Full address of the Petitioner:	Head Office: ST-4/B, Block 14, Sir Shah Suleman Road, Gulshan-e-Iqbal, Karachi - 75300. PABX Tel: 021-99231500 Fax: 021-99231550																																							
3	The grounds giving rise to petitioner's interest forming the basis of the petition:	The instant petition is mainly filed to meet the revenue shortfall for FY 2017-18 and to meet the requirement of section 8(1) of OGRA Ordinance read with Rule 4(2) of Natural Gas Tariff Rules 2002.																																							
4	Number & details of License:	Licence for Transmission, Distribution and Sale of Natural Gas Granted to Sui Southern Gas Company Limited # NG-001/2003.																																							
5	State, in a concise manner, the grounds and facts forming the basis of the petition and the relief or determination sought from the Authority.	Our tariff working for FY 2017-18 reflects that an upward adjustment of Rs 114.57 per MMBTU in SSGC's prescribed price w.e.f. 1st July 2017 is required to adjust the shortfall in Co's revenues in gas operation as per licence condition # 5.2, prescribing 17% ROA and subsidy for LPG Air Mix Projects as per GoP directives.																																							
<table border="1"> <thead> <tr> <th colspan="3">Rupees per MMBTU (Yearly Average)</th> </tr> <tr> <th>Determination ERR FY 2016-17</th> <th>Petition ERR FY 2017-18</th> <th>Variance Inc. / (Dec.)</th> </tr> </thead> <tbody> <tr> <td>388.73</td> <td>344.47</td> <td>(44.26)</td> </tr> <tr> <td>OPERATING REVENUES</td> <td></td> <td></td> </tr> <tr> <td>Cost of gas sold</td> <td>341.48</td> <td>12.15</td> </tr> <tr> <td>Adjustment for UFG above benchmark</td> <td>(35.42)</td> <td>(7.00)</td> </tr> <tr> <td>Other expenses</td> <td>81.75</td> <td>28.97</td> </tr> <tr> <td></td> <td>387.81</td> <td>69.54</td> </tr> <tr> <td>OPERATING EXPENSES</td> <td></td> <td></td> </tr> <tr> <td>(Surplus)/Shortfall in Revenue Requirement in Gas Operation</td> <td>(0.92)</td> <td>112.88</td> </tr> <tr> <td>Subsidy for LPG Air Mix Projects over & above Gas Operation</td> <td>0.92</td> <td>1.69</td> </tr> <tr> <td>(Surplus) in Revenue Requirement</td> <td>-</td> <td>114.57</td> </tr> <tr> <td># Shortfall in Revenue Requirement</td> <td>-</td> <td>114.57</td> </tr> </tbody> </table>			Rupees per MMBTU (Yearly Average)			Determination ERR FY 2016-17	Petition ERR FY 2017-18	Variance Inc. / (Dec.)	388.73	344.47	(44.26)	OPERATING REVENUES			Cost of gas sold	341.48	12.15	Adjustment for UFG above benchmark	(35.42)	(7.00)	Other expenses	81.75	28.97		387.81	69.54	OPERATING EXPENSES			(Surplus)/Shortfall in Revenue Requirement in Gas Operation	(0.92)	112.88	Subsidy for LPG Air Mix Projects over & above Gas Operation	0.92	1.69	(Surplus) in Revenue Requirement	-	114.57	# Shortfall in Revenue Requirement	-	114.57
Rupees per MMBTU (Yearly Average)																																									
Determination ERR FY 2016-17	Petition ERR FY 2017-18	Variance Inc. / (Dec.)																																							
388.73	344.47	(44.26)																																							
OPERATING REVENUES																																									
Cost of gas sold	341.48	12.15																																							
Adjustment for UFG above benchmark	(35.42)	(7.00)																																							
Other expenses	81.75	28.97																																							
	387.81	69.54																																							
OPERATING EXPENSES																																									
(Surplus)/Shortfall in Revenue Requirement in Gas Operation	(0.92)	112.88																																							
Subsidy for LPG Air Mix Projects over & above Gas Operation	0.92	1.69																																							
(Surplus) in Revenue Requirement	-	114.57																																							
# Shortfall in Revenue Requirement	-	114.57																																							
6	Summary of evidence giving brief particulars of the data, facts and evidence in support of the petition:	Statement showing head-wise Revenue Requirement is attached as per Annexure - A.																																							
7	List of all other petitions filed by the petitioner which are pending before the Authority at the time of the filing of this petition and which directly and significantly affect this petition, including an explanation of any material effect the grant or denial of those petitions will have on those other petitions:	1. Motion for Review Petition for FY 2015-16 dated 20 January 2017 and Revised Amended Motion for Review dated 24 February 2017 seeking an increase of Rs 3,950 million in the prescribed price of the Company w.e.f. July 1, 2015 filed U/R 16 of the NGTR 2002 against OGRA determination of Total Revenue Requirement dated 22-12-2016.																																							
8	To be accompanied by details of the following market data a) number and consumption details of consumers likely to be affected by the petition and,	<table border="1"> <thead> <tr> <th>Category</th> <th>Number of Consumers</th> <th>MMBTU</th> </tr> </thead> <tbody> <tr> <td>Domestic</td> <td>2,964,410</td> <td>88,641</td> </tr> <tr> <td>Commercial</td> <td>23,823</td> <td>10,219</td> </tr> <tr> <td>Industrial</td> <td>4,243</td> <td>269,157</td> </tr> <tr> <td></td> <td>2,992,476</td> <td>368,017 MMBTU</td> </tr> </tbody> </table>	Category	Number of Consumers	MMBTU	Domestic	2,964,410	88,641	Commercial	23,823	10,219	Industrial	4,243	269,157		2,992,476	368,017 MMBTU																								
Category	Number of Consumers	MMBTU																																							
Domestic	2,964,410	88,641																																							
Commercial	23,823	10,219																																							
Industrial	4,243	269,157																																							
	2,992,476	368,017 MMBTU																																							
	b) if the petitioner is a licensee an estimate of the volume of natural gas to be transmitted, distributed or sold;	Transmitted 433,930 MMBTU Distributed and Gas Sold 368,017 MMBTU																																							
	c) the petitioner's total annual peak day natural gas requirement;	1,921 MMCFD																																							
	d) the petitioner's forecast of yearly capital expenditure for five years including the year under evaluation.	As per Annexure - B																																							

17

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT SHOWING REVENUE REQUIREMENT

S.No.	DESCRIPTION	Determination FRR FY 2015-16	Determination ERR FY 2016-17	Revised Estimates ERR FY 2016-17	Petition ERR FY 2017-18	Variance Inc./Dec.) Petition FY 2017-18 over Determination ERR FY 2016-17	S.No.
1	Sales volume (MMCF)	384,988	398,489	375,276	371,774	(26,715)	(6.4)
2	Energy Sale in MMMBTU	383,979	390,315	371,521	368,017	(22,297)	(5.6)
3							
4	OPERATING REVENUES						
5	Gas Sales Revenue net of GDS	139,570	139,808	129,523	113,500	(26,308)	(18.8)
6	RLNG Transportation Income	456	3,697	3,697	4,643	946	25.6
7	Sales of gas condensate (NGL)	749	1,414	847	718	(696)	(49.2)
8	Income from Sale of LPG	2,854	2,728	3,053	3,009	280	10.3
9	Other revenues	4,531	4,083	5,218	4,897	814	19.9
10	Total operating revenues	148,160	151,731	142,338	126,767	(24,964)	(16.5)
11							
12	OPERATING EXPENSES						
13	Cost of gas sold	151,088	133,285	117,815	130,140	(3,144)	(2.4)
14	Adjustment for UFG above benchmark	(14,106)	(13,826)	(2,720)	(2,575)	11,251	(81.4)
15	Transmission and distribution cost	13,849	15,509	15,652	17,439	1,930	12.4
16	Depreciation	5,048	5,708	5,294	7,120	1,413	24.8
17	Change in accounting policy (IAS-19) by IASB	927	60	-	-	(60)	(100.0)
18	Contribution to WPPF / Other charges	1,172	918	1,853	1,932	1,015	110.6
19	Return to SSGCL (17% ROA)	8,470	9,718	12,816	14,248	4,529	46.6
20	Total operating expenses	166,448	151,372	150,712	168,306	16,934	11.2
21							
22	(Surplus)/Shortfall in Gas Operations Revenue Requirement	18,288	(359)	8,373	41,539	41,898	(11,660.6)
23	Subsidy for LPG Air Mix Projects over & above gas operation	376	359	432	624	264	73.5
24	(Surplus)/Shortfall in Revenue Requirement	18,664	-	8,806	42,163	42,163	-
25	Shortfall related to prior years #	(304)	-	-	-	-	
26		18,360	-	8,806	42,163	42,163	
27	Financial Impact on account of SHC Order	18,360	-	18,360	-	-	
28	Total Shortfall in Revenue Requirement	-	-	(9,554)	42,163	42,163	-

Note:-

Shortfall related to prior years.

★ International Accountig Standards Board (IASB).

19

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT SHOWING REVENUE REQUIREMENT

S.No.	DESCRIPTION	Determination	Determination	Revised	Petition	Variance Inc./Dec.) Petition FY 2017-18 over Determination ERR FY 2016-17	Rupees per MMBTU
		FRR FY 2015-16	ERR FY 2016-17	Estimates ERR FY 2016-17	ERR FY 2017-18		
1							
2	Energy Sale in MMMBTU	383,979	390,315	371,521	368,017	(22,297)	(5.7)
3							
4	<u>OPERATING REVENUES</u>						
5	Gas Sales Revenue net of GDS	363.48	358.19	348.63	308.41	(49.78)	(13.9)
6	RLNG Transportation Income	1.19	9.47	9.95	12.62	3.15	33.3
7	Sales of gas condensate (NGL)	1.95	3.62	2.28	1.95	(1.67)	(46.1)
8	Income from Sale of LPG	7.43	6.99	8.22	8.18	1.19	17.0
9	Other revenues	11.80	10.46	14.04	13.31	2.85	27.2
10	Total operating revenues	385.85	388.73	383.12	344.47	(44.26)	(11.4)
11							
12	<u>OPERATING EXPENSES</u>						
13	Cost of gas sold	393.48	341.48	317.12	353.63	12.15	3.6
14	Adjustment for UFG above benchmark	(36.74)	(35.42)	(7.32)	(7.00)	28.42	(80.2)
15	Transmission and distribution cost	36.07	39.74	42.13	47.39	7.65	19.3
16	Depreciation Change in accounting policy (IAS-19) by IASB	13.15	14.62	14.25	19.35	4.73	32.4
17	2.41	0.15	-	-	(0.15)	(100.0)	
18	Contribution to WPPF / Other charges	3.05	2.34	4.98	5.27	2.93	125.0
19	Return to SSGCL (17% ROA)	22.06	24.90	34.50	38.71	13.81	55.5
20	Total operating expenses	433.48	387.81	405.66	457.35	69.54	17.9
21							
22	(Surplus)/Shortfall in Gas Operations Revenue Requirement	47.63	(0.92)	22.54	112.88	113.80	(12,369.6)
23	Subsidy for LPG Air Mix Projects over & above gas operation	0.98	0.92	1.16	1.69	0.77	83.7
24	(Surplus)/Shortfall in Revenue Requirement	48.61	-	23.70	114.57	114.57	-
25	Shortfall related to prior years	# (0.79)	-	-	-	0.00	-
26	Financial Impact on account of SHC Order	47.82	-	23.70	114.57	114.57	-
27		47.82	-	49.42	-	0.00	-
28	Total Shortfall in Revenue Requirement	-	-	(25.72)	114.57	114.57	-

Note:-

Shortfall related to prior years.

★ International Accounting Standards Board (IASB).

SUI SOUTHERN GAS COMPANY LIMITED
FIVE YEAR CAPITAL EXPENDITURE PLAN

Annexure-S

S.NO.	DESCRIPTION	FY2015-16		FY2016-17		FY2017-18		FY2018-19		FY2019-20		FY2020-21		FY2021-22		TOTAL FY 2016-17 to FY 2021-22	
		Actual	Rev. Estimates	Projected													
A) TRANSMISSION NETWORK																	
1	A.1) ONGOING PROJECTS																
2	12" dia x 35 Km Shujhor Gas Field Integration Project	0.036															
3	24" dia x 35 Km Kumar/Pasakhi Gas Field Integration Project	0.012															
4	12" dia x 53 Km Mehar Gas Field Integration Project																
5	8" dia x 8.5 Km pipeline from Jhal Magri to Shori	0.005															188.742
6	6" Dia X 14 KM Nur/Begla gas field	0.284	5.000														-
7	6" Dia X 22 Km Sajawal Gas Field Integration Project	0.002															5.000
8	16" dia IBBP Rehabilitation & Intelligent Piping	30.518	18.866														-
9	12" dia x 344 Km QPL Rehabilitation and Intelligent Piping																46.961
10	Construction of Sub-merge crossings	22.195	33.000														328.262
11	SSGC's Transmission Pipeline Right of Way (ROW)																125.142
15	Additional Gas from Naimat POD	(2.476)															713.160
17	Permanent Metering Set-up for POGC line at Naling	69.125	123.000														-
19	24" dia x 33 Km Masa to Tando Adam transmission loopline project	942.805	40.000														135.912
20	6" dia x 22 Km Sajawal Gas Field Integration Pipeline Project		3.000														40.000
23	Installation of Pneumatic Pressure Controllers at SMSs	3.163															3.000
24	Piping Setup at JVIL	0.154															-
25	12" dia x 54 Km Zerguan - Qetta pipeline	3.744															-
26	16" dia 18 KM Thistar Power	0.009															-
27	Pipes-Coating Plant (Consultancy Services for setting up the plant)																-
NEW PROJECTS																	
28	30" dia x 125 Km Pipeline from SMS Sindh University to SMS Pakland (1st segment 125KM) (2nd phase 35 KM SMS Pakland to Malir, 3rd Phase SMS Sindh University to HQ2)																10,993.761
29	Check Metering Facility at Sharidadpur for Gambat South Field Gas Measurement.																344.358
30	24" dia x 31 Km looping from Kathore to Surjani - High Pressure Trans. Line	0.004															1,412.617
31	Sub-Total	1,069.600	222.866	9,525.361	4,027.000	562.288											14,337.515

**SUI SOUTHERN GAS COMPANY LIMITED
FIVE YEAR CAPITAL EXPENDITURE PLAN**

ПРИЛОЖЕНИЯ

SUI SOUTHERN GAS COMPANY LIMITED
FIVE YEAR CAPITAL EXPENDITURE PLAN

Annexure-E

S. NO.	DESCRIPTION	Rs million					TOTAL FY 2016-17 to FY 2021-22
		Actual	Rev. Estimates	Projected			
59	B) DISTRIBUTION NETWORK						
60	B.1) MAJOR PROJECTS - NORMAL						
61	16" dia x 7.5 Kms Supply Main Hyderabad (for Re-alignment of existing 10" dia Twin SM (from HQ-3 - TBS Lalbagh Road)		255.019				255.019
62	12" dia x 26.5 Km Supply Main Tando Aliayyar	208,000	169,059	-	-	-	377,059
63	Sub-Total	208,000	424,078	-	-	-	632,078
64	B.2) GAS DISTRIBUTION SYSTEM:						
65	Normal Expansion/ New Towns/ Villages & UFG reduction Program	4,860.145	5,209,000	6,385,922			11,594,922
66	Sub-Total	4,860.145	5,209,000	6,385,922			11,594,922
67	Total - Distribution (B)						12,227,000
68	C) OTHERS						
69	C.1) Construction Equipment (RLNG Related)	1,067,000					1,067,000
70	C.1a) Construction Equipment	1,113,035					
71	C.2) Other Capital Expenditure (including stores/spares for capex)	8,530,818	1,846,818	2,659,104	2,000,000	2,000,000	8,505,922
72	Total - Others (C)						3,572,922

S. NO.	DESCRIPTION	FY2015-16		FY2016-17		FY2017-18		FY2018-19		FY2019-20		FY2020-21		FY2021-22		TOTAL FY 2016-17 to FY 2021-22 Rs million	
		Actual	Rev. Estimates	Projected													
D) LPG Air Mix Projects - Existing/New																	
73	D.1) LPG Air Mix Projects - Existing/New																
74	D.1.1) Gawadar																
75	D.2) Surab																
76	D.3) Noshki																
77	D.4) Kot Ghulam Muhammad	57,753		60,139		15,060											75,199
78	D.5) Awaran																
79	D.6) Bela																
80	Total - LPG Air Mix Projects (D)																
81	GRAND TOTAL(A+B+C+D)	26,614,388		38,196,517		23,613,051		7,477,000		2,562,288							71,846,856

SUI SOUTHERN GAS COMPANY LIMITED
PROPOSED PRESCRIBED PRICES

CATEGORY OF CONSUMERS	PRESCRIBED PRICES <i>effective from 01-07-2017</i>	Price Adjustment	Rate Rs per MMBTU
			PROPOSED PRESCRIBED PRICES <i>effective from 01-07-2017</i>
			as per determination dated 06-10-2016
<u>DOMESTIC CONSUMERS</u>			
a) Standalone meters;			
b) Religious places; Mosques, churches, temple, madrassas and hostels attached thereto:			
Upto 100 CM per month - All off-takes at flat rate of	74.03		74.03
Upto 300 CM per month - All off-takes at flat rate of	148.06		148.06
Over 300 CM per month - All off-takes at flat rate of	370.14		370.14
Minimum charges (Rs. per month)	148.50		148.50
c) HOSTELS & RESIDENTIAL COLONIES-BULK METERS			
All off-takes at flat rate of	370.14		370.14
Minimum charges (Rs. per month)	3,600.07		3,600.07
SPECIAL COMMERCIAL CONSUMERS (Roti Tandoors)			
Upto 100 CM per month - All off-takes at flat rate of	74.03		74.03
Upto 300 CM per month - All off-takes at flat rate of	148.06		148.06
All off-takes at flat rate of	444.17		444.17
Minimum charges (Rs. per month)	148.50		148.50
COMMERCIAL CONSUMERS			
Minimum charges (Rs. per month)	444.17	161.87	606.04
	4,200.07		4,200.07
ICE FACTORIES			
Minimum charges (Rs. per month)	444.17	161.87	606.04
	4,200.07		4,200.07
INDUSTRIAL CONSUMERS			
Minimum charges (Rs. per month)	340.52	161.87	502.39
	20,232.00		20,232.00
C.N.G STATIONS			
Minimum charges (Rs. per month)	457.91	161.87	619.78
	23,604.00		23,604.00
CAPTIVE POWERS			
Minimum charges (Rs. per month)	399.85	161.87	561.72
	20,232.00		20,232.00
CEMENT FACTORIES			
Minimum charges (Rs. per month)	518.20	161.87	680.07
	25,290.00		25,290.00
PAKISTAN STEEL			
Minimum charges (Rs. per month)	340.52	161.87	502.39
	20,232.00		20,232.00
FAUJI FERTILIZER BIN QASIM LIMITED			
Feed stock for fertilizer	123.41		123.41
Power generation	340.52	161.87	502.39
EXISTING POWER STATIONS			
Minimum charges (Rs. per month)	340.52	161.87	502.39
	13,488.00		13,488.00
INDEPENDENT POWER PRODUCERS			
Minimum charges (Rs. per month)	340.52	161.87	502.39
	13,488.00		13,488.00

Note:-

- Upward adjustment of Rs 114.57 per MMBTU for FY 2017-18 has been re-worked at Rs 161.87 per MMBTU with the consideration that effect of price adjustment not to pass on to domestic, special commercial (roti tandoors) customers and feedstock of fertilizer industry.
- Minimum charges as per consumer price notifications dated 30 December 2016 issued by the Authority.

ANNEXURE - D

BASIS & ASSUMPTIONS OF PETITION FOR ESTIMATED REVENUE REQUIREMENT (ERR) FOR FY 2017-18

A) Tariff

Projected gas Sales Revenue for FY 2017-18 is based on Consumers' prices as per notifications dated 30 December 2016 whereas SSGC prescribed (Retainable) prices have been taken as per Annexure-B of OGRA Determination of Estimated Revenue Requirement of SSGCL for FY 2016-17 OGRA-6(2)-2(2)/2015 dated 6 October 2016.

B) Operating incomes

In line with the Sindh High Court (SHC) decision dated: 25 Nov 2016 dismissing all the stay orders granted to the Company from FY 2010-11 to FY 2015-16 revenue from Meter Manufacturing Profit, Late Payment Surcharge , Sale of Condensate, LPG and NGL are treated as operating incomes in the instant petition.

However, an appeal in the Supreme Court of Pakistan has been filed against the above decision of SHC and in case of favourable decision; the company reserve the right to amend the instant petition in the light of the decision.

C) RLNG

In the first phase of RLNG project in 2015-16, SNGPL allocation is being delivered through swap of SSGC share of indigenous gas in lieu of RLNG. Later on in 2016-17 of RLNG operations 400 MMSCFD gas is delivered to SNGPL under swap arrangements. Accordingly, from July to December 2016; 24"-33km Tando Adam Massu lopline, 42"-14 km Nara Sawan segments and compression at Nawabshah had been used to transport volume from RLNG. Presently reverse flow from HQ-3 Hyderabad, HQ-2 Compressors and 42" dia dedicated RLNG pipeline segment from Nawabshah to Sawan is also being used to swap 600 MMSCFD to SNGPL in lieu of RLNG. Whereas in phase-II from April 2017; 42" dia-342km Pak Land ~ Sawan pipeline of 1.2 BCF capacity from Karachi to Sawan and additional compression station has been planned and commissioned to deliver RLNG directly from Karachi to SNGPL network at Sawan. SNGPL initiated expansion in their network beyond Sawan.

SSGC's Transmission department can handle a maximum capacity of Indigenous Gas SWAP of 600 MMSCFD (conditions permitting) having average BTU of 970 targeted for swap. In this way, the RLNG volume should be equivalent of energy ($600 \times 970 = 582,000$). The imported RLNG BTU value varies from 1010 to 1100 (based on historical data).

Similarly LNG volume for 1100 BTU LNG would be "600 x 970 = 582,000 / 1100 = 529 MMCFD of RLNG"

The details of the Project with respect to technical/cost data, need analysis, etc. is given in Section D at D-1 of the instant petition.

All the costs related to LNG/RLNG business (including the LSA and other charges) are to be ring-fenced and recovered from RLNG customers. In addition to it the financial cost incurred in creation of RLNG infrastructure has been allowed as admissible expense in the revenue requirement of the utility companies as per ECC decision. Estimates for FY 2017-18 related to RLNG business are therefore outlined separately under attachment I of Annexure-D.

RLNG-III

The RLNG-III pipeline project for provision of additional 1.2 BCFD capacity pipeline was discussed in a meeting chaired by the Minister for Petroleum & Natural Resources on 6 Jan 2017. Considering the diminishing domestic gas supply sources, increasing gas / RLNG demand and upcoming LNG terminal for import of LNG, there is an immediate need for development of an additional 1.2 BCFD capacity pipeline from Karachi (Tie-in-point) to Lahore.

In the light of above, SSGC is in initial stage of evaluating the RLNG-III project, devising feasibility studies and performing engineering survey. Front End Engineering Design (FEED) is under preparation and would be submitted to MP&NR for conceptual clearance. The project will be undertaken upon availability of commercial bank borrowings under sovereign guarantee of Govt. of Pakistan.

D) Gas availability

The gas availability from new/expected indigenous gas field during FY 2017-18 is mentioned below:

During FY 2017-18 a new gas field Ayesha is expected to be commissioned and start supplying gas 19.9 mmcfd from Jan 2018 onwards.

The gas availability of 436,062 MMCF or 1,195 MMCFD for FY 2017-18 has been worked out considering take and/or pay and current trend of gas off takes from existing and new gas fields and it is envisaged that it will decrease by 1.2% over current year estimates of 441,331 MMCF or 1,209 MMCFD and 7.1% decrease over last year actual of 469,381 MMCF or 1,283 MMCFD.

E) Cost of Gas

The cost of gas purchased is based on projected wellhead gas prices effective July 2017 worked out on estimated average FOB price for crude oil at US\$ 53.72 per barrel and HSFO US\$ 319.14 per metric ton.

Actual average FOB rates of HSFO and Crude oil during January 2017 have been taken without any escalation. Thus the estimates are based on C&F price for crude oil at US\$ 54.42 per barrel and HSFO at US\$ 324.39 per metric ton.

Rupee v/s US\$ parity has been assumed at Rs. 107 & 108 for Jul.-Dec. 2017 and Jan-Jun 2018 respectively. It has been assumed that exchange rates will remain within above figures for payments therefore exchange gain/loss is not appearing in the petition. However, the Petition may be amended for any fluctuation in the forex rates.

Projected weighted average cost of Gas has thus been worked out at Rs. 300.76 per MMBTU for FY 2017-18 as compared to cost of gas included in DERR estimates of Rs. 275.18 per MMBTU for FY 2016-17.

F) Un-accounted For Gas (UFG)

The Honourable Sindh High Court granted stay orders to the company allowing 7% as UFG benchmark. However, all the stay orders from FY 2010-11 to FY 2015-16 have been dismissed and as a consequence the UFG benchmark of 7% has also become redundant as per SHC decision dated 25 November 2016.

OGRA engaged UFG consultants, M/s. KPMG for conducting UFG Benchmark study to finalize UFG Benchmark. As per the preliminary draft of the report circulated to stakeholders for comments, the UFG benchmark may vary between 5% to 9.05% based on Company's performance against Key Monitoring Indicators (KMs).

The Authority is arranging awareness sessions for seeking Stakeholders comments before finalizing the study. It is expected that the study will be finalized by June 2017.

We understand that the Authority will decide the UFG benchmark in the light of the said study considering the relevant factors and ground realities. Based on the updated Draft proposal of Consultant study a UFG benchmark of 9.05% has been assumed comprising of 5% fixed allowance against technical losses usually inherent to gas supply network and 4.05% for impact of variable factors i.e. adjustment of bulk to retail ratio, law & order affected areas and assuming that Company will succeed in achieving 100% KMs.

The draft UFG Consultant study did not consider allowance on account of theft by non-consumers on the premise that if allowed, it becomes a window for shifting the burden to good consumers. However, for the purposes of instant petition, 9,273 mmcft (9 bcf) is claimed under the head of theft by

non-consumers based on ECC decision dated 20 November 2014. The SWAP volumes have not been projected/considered in UFG calculations which will be claimed at actual.

Since, the UFG study is in progress and the targets for FY 2017-18 are not available, we request the Authority to allow 11.06% UFG for FY 2017-18.

UFG Control Programme/Strategy

Reduction in UFG is SSGC's top most priority as it is growing by the year. We have realigned our focus and organization to manage it with more concerted efforts using innovative technologies and solutions.

It has been observed that the gas losses have been increased drastically during last five years. Government Moratorium on new connections of industrial, commercial and domestic housing schemes and high rise buildings is considered to be a major cause for escalating the level of UFG as it stimulates gas consumers for gas theft to fulfil their basic necessities.

The distribution network of Sindh covers more than 50% of pipelines scattered in overall Sindh province into small towns and villages. The most of these small towns were gasified to fulfil the Government Socio Economic objectives.. As a result, leakages factors are higher than other regions because more pressure is required in larger network to meet requirement at network tail end.

We are optimistic that our Major initiatives for UFG Reduction are sustainable and will give persistent results. Their processes have been defined in a much more stringent manner that ensures control, monitoring, transparency, audit, and governance.

We understand innovative and out of the box solutions are a major contributor not only to contain but reduce the UFG by effective detection and measurement of facts leading to a timely corrective action. Our way forward is to clearly identify issues, projects, teams, roles, & requirements, plan well, define reporting and controls, identify the mechanism to measure / quantify, and setup a Program Office. The UFG control strategy encompasses immediate, short term and long term measures.

Short Term Measures

Meter Replacement

Faulty / tempered meters contribute significantly in UFG as such, meters do not register (either fully or partially) the quantum of gas delivered to customers. The accuracy of meters decline until the meter stops reading due

to dust, mechanical wear and tear and tempering. All such meters are planned to be replaced in phased manner. Hence, 324,564 nos. of meter replacement has been planned in FY 2017-18.

Under ground and Overhead leak rectification

Maintenance of existing underground gas pipelines and overhead piping is equally important. To ensure safety of the public and to reduce loss of gas and risk of hazardous condition, system needs to be rectified by plugging leaks and rectifications. Hence, 5,500 Kms of underground and 716,000 nos. Of overhead leak survey have been estimated for FY 2017-18.

Remote Monitoring

Modems on Meters of all major industrial customers including CNG Stations have been installed and monitored remotely.

Theft Control Activities

Security Services Department of SSGC in coordination with Police has extended their efforts to raid in various localities and register FIR's against the culprits – Gas theft law/court letter. However, the progress after lodging of FIR's remains slow. In this relation, we would like to point out to Section 3 i.e. "Constitution of Gas utility Courts" of the Act 2016 which stipulates as under;

Quote

" The Federal Government may in consultation with Chief Justice of High Court concerned, and by notification in the official Gazette, establish as many Gas utility courts in district as it may deem necessary for the purposes of this Act and appoint a judge for each courts from amongst the district and session judge in that district...."

(Emphasis Added)

The company has requested the Honourable Secretary Ministry of Law & Justice (ref SSGC letter MD.Secy-L&J/136 dated: 13 April 2016) that for the total execution of Gas (theft control and recovery) Act 2016 and for the purposes of expediency, directions may be issued pursuant to above quoted Section 3 for the establishment of gas utility courts in the provinces of Sindh and Balochistan at each of the district level.

The matter is still pending; we also request Authority's to use its Good Office for pursuing this matter. We understand that establishment of gas utility courts would expedite disposal of reported gas theft cases.

Long Term Measures

Distribution Network Segmentation:

Management is focusing to install bulk meters on all TBS/ PRS, to establish the manageable and measurable segments for effective controls. Bulk Meters, EVC (Electronic Volume corrector) and Modems are being installed on Pressure reducing stations called TBS /~PRS to ascertain the gas losses in the specific segment by tagging consumers. 59 nos of such segments have been planned.

Rehabilitation of leaking Steel Pipelines

The rehabilitation of old leaking pipelines is dependent on road cutting approvals from local Governments.

Rehabilitation besides saving considerable gas losses (UFG) it will provide an opportunity to remodel the network keeping in view the present gas demand as well as provision for coming years so that the system may be operated at optimum pressure without upgrading the network again.

Cathodic Protection

Cathodic Protection is playing a vital role for steel pipe line protection from corrosion. First line of Defence/ protection for any steel pipe line is adequate coating. New CP stations are being added to the system, defective Transformer Rectifier (TR) will be replaced. Unprotected pipelines will be provided with new TRs. Remote CP monitoring will be made available for having constant vigilance without going to the remote areas.

Metering Improvement

G4 meters have being phased out with the next generation V3 meters which were developed after extensive discussions, research and development spanning over last 4 years, between SNGPL, SSGC, and Itron. V3 meters are robust and have features to protect theft, tempering and stop dust flowing to measuring unit.

Pilot projects:

1-AMR technology: This technology is used in V3 meters. This will help detect spikes, when the meter becomes under and over capacity. Faulty meters will be replaced.

2- Area isolation: Meters will be installed on either side of a pipeline. Difference in flow between any two points will be scanned and reasons for UFG (theft or leakage) will be determined.

G) Operating costs:

i) HR cost Benchmark:

The estimated HR benchmark cost for FY 2017-18 (based on the Authority's HR Benchmark formula applied for calculation of actual HR Benchmark cost for FRR FY 2015-16 – reference OGRA determination FRR FY 2015-16 dated: 22 Dec 2016 and ERR FY 2016-17 – reference OGRA determination MFR FY 2016-17 dated: 22 Dec 2016) comes to Rs. 14,043 million, (sales volumes 371,774 MMCF + 219,000 MMCF volumes swap to SNGPL = 590,774 MMCF).

The company has estimated the HR cost at Rs. 13,840 million, hence the Authority is requested to allow this cost.

ii) Gas Consumed Internally: Calculated on the basis of estimated volumes of gas internal consumption for FY 2017-18 valued at WACOG of indigenous gas at Rs. 300.76 per MMBTU.

iii) Provision for Doubtful Debts: The Company's estimates of Rs. 1,833 million have been claimed under this head being provisioning based on disconnected consumers. The treatment is in line with the directions of the Authority provided in its decision dated 6 October 2016 for DERR FY 2016-17.

iv) Other operating Costs: Other T&D cost estimates are primarily based on best estimates keeping in view the increase in prices owing to inflation, activity and rates. Provisions for extra-ordinary and unusual revenue expenditure and increase due to enhanced activity have also been incorporated.

H) Addition to Rate base / Physical Targets

During FY 2017-18 the Company plans to capitalize Rs. 25.0 billion (including LPG Airmix) which facilitates expansion in transmission system by 222 km and distribution network mains and services by 925 kms, this includes new towns and villages 163 Km and 34 Km for major distribution projects. Besides this rehabilitation of 697 Kms has been envisaged for UFG control programme. Acquisition of other assets with the objective to meet growing demand of natural gas and maintain / improve quality of service in the franchise area has also been envisaged. Gas will be provided to about 114,721 new connections, thereby total no of customers are expected to be around 2.9 million.

Air Mix LPG Projects:

The concept of installation of Air Mix LPG project was found feasible in the remotely located areas where extension of gas transmission / distribution network is difficult and economically unviable. Owing to the directives / approvals of GOP/OGRA four such projects have been commissioned in Gawader, Noshki, Kot Ghulam Muhammad and Surab. In addition to above

the company has also initiated the formalities for installation of LPG Airmix plants at Awaran & Bela.

The Economic Coordination Committee has approved the MP&NR's summary vide case no. ECC-122/21/2016 for installation of 30 LPG Air Mix plants in Sindh and Balochistan by SSGC. The Ministry further advised that all 30 plants are to be installed immediately. The Ministry advised SSGC to carry out these projects through its own resources and requested Ministry of Finance for arranging soft-term/commercial loan of PKR 10 Billion from financial market under sovereign guarantee at competitive interest rate for a tenure of 10 years. Out of these 30 locations, 27 Nos. have been surveyed while the survey of remaining is in process.

Details of LPG Airmix plants may be referred in Table-D1 of the instant petition.

Physical targets:

As a result of the addition in rate base, the company will be able to achieve the Physical targets as contained in Attachment-II.

Attachment-I

SUI SOUTHERN GAS COMPANY LIMITED
COMPONENTS OF SALE PRICE FOR RLNG

For FY 2017-18

Budget/ Petition

Delivered RLNG - MMBTU

231,045,000

	Rupees Million	Rs per MMBTU	Reference
LSA Capacity Charges	8,499	36.79	
LSA Utilization Charges	1,558	6.74	
SSGC's Margin for LSA Management (treated as non-operating)	621	2.69	Included in Other income at Table B-9.6
LSA CHARGES	10,678	46.22	
Revenue Expenditure	93	0.40	Included in T&D cost at Table B-5.1
Depreciation	1,758	7.61	Included in Depreciation at Table B-6
Return on Assets	6,918	29.94	Included in Return at Table A-1
Sub-Total	8,769	37.95	
Financial charges for RLNG	100	0.43	As per decision of ECC, financial charges incurred on RLNG infrastructure to be recovered from RLNG customers.
Operating income	(136)	(0.59)	
COST OF SUPPLY	8,734	37.80	
TOTAL	19,412	84.02	

FOR RETAINAGE & OTHERS

	MMCF
LNG Volumes regassified	219,000
Retainage Volumes	2,077
Retainage Percentage	0.95%
Transmission Loss	0.50%

Note:-

* In the estimates capacity and utilization charges have been worked out based on the existing arrangements under the LSA.

The Company is in process of negotiating a further / additional 200 MMCFD based upon GoP directives No.I.G-12(68)/2016 dated 25 August 2016. The negotiations are in advance stage and close to finalisation for signing. In the meanwhile GoP has directed to receive additional 200 MMCFD from last quarter of LSA year 2 i.e. January 2017 till to March 2017 last year of LSA.

** Gas consumed internally for compressor fuel has been assumed to be adjusted against quantities to be delivered to SNGPL.

Attachment II

PHYSICAL TARGETS FOR FY 2017-18

	FY 2016-17	FY 2017-18
	Petition	Petition
Transmission Network	623	222
Distribution Network		
a) Mains & Services - (Kms)		
Normal Expansion - Existing Areas	394	283
Augmentation/Reinforcement	204	217
Distribution Project - Major	34	34
Services expansion	370	228
Total Mains	1,002	762
New towns (villages)	185	163
	1,187	925
b) Rehabilitation Mains & Services - (Kms)		
Rehabilitation Mains/Services	1,212	697
Total Mains & Services	1,212	697
c) New connections (Nos.)		
Industrial	32	37
Commercial	427	384
Domestic	103,908	114,300
	104,367	114,721
d) Gas Meter Production (Nos.)		
G-1.6	364,600	262,200
G-4	624,000	694,620
Third Generation of G-4 (V-3 Project) Meter		
Total	988,600	956,820
e) Gas Meter Sales (Nos.)		
SSGC (own consumption)	364,600	653,820
SNGPL	624,000	295,000
Others	-	8,000
	988,600	956,820

SUI SOUTHERN GAS COMPANY LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
For FY 2017-18
INDEX - SECTION - A

Working for Tariff Adjustment & Financial Statements

DESCRIPTION	Table #
Working for Tariff Adjustment required to meet 17% ROA	A-1
Profit & Loss Account	A-2
Balance Sheet	A-3
Statement of Ratios	A-4

Table # A-1

SUI SOUTHERN GAS COMPANY LIMITED
WORKING FOR TARIFF ADJUSTMENT REQUIRED

S.No.	DESCRIPTION	Petition ERR FY 2017-18	Rs Million	
			Table No.	S.No.
1	I. Gas Sales volume in MMCF	371,774	B-2.1	1
2	Energy Sale in MMBTU	368,017	B-2.5	2
3	A: Net operating revenue			3
4	Gross Sales - net of general sales tax	166,198.197	B-2.7	4
5	Less: Gas Development surcharge - at existing	52,698.285	B-3.1	5
6	Net Sales	113,499.912		6
7	RLNG Transportation Income	4,643.207	B-8	7
8	Income from Sale of LPG	3,008.644	B-9.3	8
9	Meter rentals	772.565	B-9.1	9
10	Amortization of deferred credit	426.348	B-9.2	10
11	Sale of Gas Condensate (NGL)	717.718	B-9.3	11
12	Late payment Surcharge	2,957.521	B-9.4	12
13	Meter manufacturing plant profit	208.730	B-9.5	13
14	Other income	2,685.057	B-9.6	14
15	Sub total	15,419.790		15
16	Total operating income "A"	128,919.702		16
17	B: Less operating expenses			17
18	Cost of gas	130,140.367	B-1.4	18
19	Transmission and distribution cost	17,439.475	B-5	19
20	Depreciation	7,120.400	B-6	20
21	Financial charges	12,718.195	B-11	21
22	Other charges excluding W.P.P.F	1,958.360	B-10	22
23	Total operating expenses "B"	169,376.797		23
24	C: Profit / (Loss) before WPPF (A-B)	(40,457.095)		24
25	D: Less: Workers Profit Participation Fund	(2,022.855)		25
26	E: Add: Non-admissible expenditure	(38,434.240)		26
27	E.(i) Add: Financial charges of banks / others	6,387.540	B-11	27
28	Interest on delayed payment of gas producers bills	6,330.655	B-11	28
29	Non-operating / disallowed expenses			29
30	Adjustment for UFG above benchmark	2,574.510	B-4.1	30
31	Other expenses	79.985	B-10	31
32	E.(i) sub-total	15,372.690		32
33	E.(ii) Less: Non operating other income			33
34	Interest income from KESC & WAPDA	229.237	B-9.6	33
35	Interest income from JVPL	258.267	B-9.6	34
36	Interest income from SNGPL	13,424	B-9.6	35
37	Interest on short term loan to subsidiary	868.291	B-9.6	36
38	Income for receivable against asset contribution	126.342	B-9.6	37
39	Margin for LSA Management	36.619	B-9.6	38
40	E.(ii) sub-total	620.933		39
41	Net non-admissible expenditure E.(ii) - E.(i)	2,153.113		40
42	F: Operating profit / (Loss) (C - D + E)	13,219.577		41
43	3. Return required on Net Assets:	(25,214.663)		42
44	Net assets at beginning	81,520.751	B-12.2	43
45	Net assets at ending	98,748.756	B-12.2	44
46		180,269.507		45
47	Average Net Fixed Assets (i.a)	90,134.754		46
48	Less: Meter Manufacturing Plant and LPG Air Mix Project Assets			47
49	Net assets at beginning	1,871.170	B-12.2	48
50	Net assets at ending	1,781.948	B-12.2	49
51		3,653.118		50
52	Average Net Fixed Assets (i.b)	1,826.559		51
53		88,308.195		52
54	Average Net Fixed Assets related to Gas Activity (i)			53
55	Deferred Credit at beginning	4,533.000	B-9.2	54
56	Deferred Credit at ending	4,465.622	B-9.2	55
57		8,998.622		56
58	Average Deferred Credit (ii)	4,499.311		57
59	a) Average Net fixed assets after Deferred Credit (3.i - 3.ii)	83,808.883		58
60	b) Return required on Net Assets	17%		59
61	c) Amount of return required (3.a * 3.b)	14,247.510		60
62	Additional Revenue Required for Gas Operation			61
63	4. Shortfall / (Surplus) over return required (2.F - 3.c)	39,462.173		62
64	5. Gross-up for W.P.P.F @ 5% of (4.)	41,539.129		63
65	6. Increase in Prescribed Price - Rs per MMBTU	112.87		64
66	Subsidy for LPG Air Mix Projects over & above Gas Operation	623.591	B-13.2	65
67	Shortfall / (Surplus) in Revenue Requirement	42,162.720		66
68	Rupees per MMBTU (w.e.f. 1 July 2017)	114.57		67
69				68
70				69
71				70
				71

Table # A-2

SUI SOUTHERN GAS COMPANY LIMITED
PROJECTED PROFIT AND LOSS ACCOUNT

S.No.	DESCRIPTION	Determination FRR FY 2015-16	Determination ERR FY 2016-17	Revised Estimates ERR FY 2016-17	Petition ERR FY 2017-18	Rs Million
		S.No.				
1	Sales volume in MMCF	384,988	398,489	375,276	371,774	1
2	Energy Sale in MMBTU	383,979	390,315	371,521	368,017	2
3						3
4	Gas sales net of sales tax	183,403.425	200,793.697	177,027.007	166,198.197	4
5	Gas development surcharge - at existing	16,325.251	37,109.580	47,504.211	52,698.285	5
6	Less : Price increase / (decrease)	(27,508.000)	(23,876.000)	(9,554.490)	42,162.720	6
7	Gas development surcharge after price adjustment	43,833.251	60,985.580	57,058.701	10,535.565	7
8	Change in accounting policy (IAS-19) by IASB	927.011	60.000	-	-	8
9	Cross Subsidy for Air Mix LPG Operation over & above Gas Operation	376.027	359.316	432.107	623.591	9
10	Gas development surcharge after adjustment	45,136.289	61,404.896	57,490.808	11,159.156	10
11	Net sales	138,267.136	139,388.802	119,536.199	155,039.041	11
12	Cost of gas	151,087.948	133,284.597	117,815.083	130,140.367	12
13	Gross Margin	(12,820.812)	6,104.204	1,721.117	24,898.675	13
14	Transmission and distribution costs	13,685.819	15,509.245	15,652.426	17,439.475	14
15	Depreciation	5,096.400	5,707.592	5,294.338	7,120.400	15
16		18,782.218	21,216.837	20,946.764	24,559.875	16
17	Meter rentals	718.779	749.937	744.391	772.565	17
18	Recognition of income against deferred credit	406.096	407.049	410.839	426.348	18
19	Operating profit	(30,478.156)	(13,955.647)	(18,070.417)	1,537.713	19
20	Sales of gas condensate (NGL)	748.630	1,414.160	847.343	717.718	20
21	Late payment surcharge	2,197.704	1,150.742	3,320.712	2,957.521	21
22	Meter manufacturing plant profit	14.805	640.741	182.434	208.730	22
23	Air Mix LPG projects profit	108.197	103.220	156.166	162.272	23
24	Transportation income		67.552			24
25	RLNG Transportation Income	456.000	3,697.000	3,697.000	4,643.207	25
26	Income from Sale of LPG	2,854.249	2,728.251	3,053.178	3,008.644	26
27	Other income	3,127.513	3,231.409	2,689.089	2,685.057	27
28		(20,971.058)	(922.571)	(4,124.495)	15,920.861	28
29	Other charges excluding (W.P.P.F.)	2,025.292	733.000	1,933.360	1,958.360	29
30	Workers Profit Participation Fund (W.P.P.F.)	-	295.682	-	54.102	30
31		(22,996.350)	(1,951.253)	(6,057.855)	13,908.399	31
32	Financial charges	10,287.804	14,466.763	9,356.096	12,718.195	32
33	Profit before taxation	(33,284.155)	(16,418.017)	(15,413.951)	1,190.204	33
34	Price adjustment required Rs.per MMBTU	(71.64)	(61.17)	(25.72)	114.57	34

Note:-

Shortfall related to prior years.

★ International Accounting Standards Board (IASB).

Table # A-3

SUI SOUTHERN GAS COMPANY LIMITED
BALANCE SHEET

S.No.	DESCRIPTION	Determination FRR FY 2015-16	Determination ERR FY 2016-17	Revised Estimates ERR FY 2016-17	Petition ERR FY 2017-18	Rs Million
						S.No.
1	SHARE CAPITAL - Paid up					1
2	Fully paid in cash	2,196	2,196	2,196	2,196	2
3	Bonus Shares Issued	6,613	6,613	6,613	6,613	3
4		8,809	8,809	8,809	8,809	4
5	Reserves	4,907	4,907	4,907	4,907	5
6	Unappropriated profit / (losses)	(27,301)	(15,938)	(21,245)	(20,412)	6
7	Surplus on re-measurement of available for sale securities	202	268	241	241	7
8	Surplus on revaluation of fixed assets +	11,728	10,252	11,728	11,728	8
9		(1,654)	8,298	4,441	5,274	9
10	Long term financing	23,596	84,099	64,408	77,509	10
11	Deferred credit	8,208	4,533	4,691	4,466	11
12	Deferred tax liability	-	(885)	-	-	12
13	Obligation against pipeline	1,028	-	983	933	13
14	Long Term Deposits and Advance	19,186	18,240	19,748	21,604	14
15	TOTAL:	50,364	114,285	94,271	109,786	15
16	Represented by:					16
17	Fixed Assets-at cost	131,447	193,903	179,026	204,223	17
18	Less: Accumulated depreciation	57,326	65,401	64,719	72,504	18
19		74,121	128,502	114,307	131,719	19
20	Capital work in progress	23,521	9,045	15,832	14,264	20
21	Long term investment	1,243	1,282	1,282	1,282	21
22	Deferred tax	3,743	6,737	6,491	6,491	22
23	Net investment in finance lease	362	307	157	51	23
24	Long term deposits and prepayments	8	9	10	10	24
25	Long term loans and advances	162	176	185	194	25
26		103,162	146,058	138,264	154,011	26
27	Current assets					27
28	Stores, spares and Stock-in-Trade	3,133	3,179	3,697	4,594	28
29	Current maturity of net investment in finance lease	110	119	150	106	29
30	Trade debts	86,608	125,894	82,725	82,747	30
31	Others receivables	85,574	57,080	76,067	79,718	31
32	Taxation - net recoverable	13,219	13,695	20,644	20,287	32
32	Cash and bank balances	954	987	935	944	32
33		189,599	200,954	184,218	188,396	33
34	Current liabilities					34
35	Current maturity of - long term financing	5,756	5,278	7,044	10,950	35
36	Short term borrowing	4,860	-	7,860	-	36
37	Creditors, accrued and other liabilities	231,781	227,450	213,307	221,671	37
38		242,398	232,728	228,211	232,621	38
39						39
40	Working capital	(52,799)	(31,773)	(43,993)	(44,225)	40
41						41
42	TOTAL:	50,364	114,285	94,271	109,786	42

Note:- + Represents revaluation of land.

Table # A-4

**SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF RATIOS**

S.No.	DESCRIPTION	Determination	Determination	Revised	Petition	Rs Million
		FRR FY 2015-16	ERR FY 2016-17	Estimates ERR FY 2016-17	ERR FY 2017-18	
1	DEBT EQUITY RATIO					
2	Share Capital - Paid up (Existing)	2,196	2,196	2,196	2,196	1
3	Bonus Shares Issued	6,613	6,613	6,613	6,613	2
4						3
5	Reserves	8,809	8,809	8,809	8,809	4
6	Unappropriated profit / (losses)	4,907	4,907	4,907	4,907	5
7	Surplus on revaluation of investment	(27,301)	(15,938)	(21,245)	(20,412)	6
8		202	268	241	241	7
9	Long term loans/Lease & Redeemable Capital	(13,382)	(1,954)	(7,287)	(6,454)	8
10		29,352	89,376	71,452	88,459	9
11	Debt Equity Ratio	15,970	87,423	64,165	82,005	10
12		184	102	111	108	11
13		(84)	(2)	(11)	(8)	12
14	RETURN ON NET FIXED ASSETS (Gas Operation)					
15	Average net fixed assets (A)	54,999	61,902	80,251	88,308	13
16	Less: Average deferred credit	5,175	4,737	4,862	4,499	14
17		49,824	57,166	75,389	83,809	15
18	Profit Before Tax	(33,284)	(16,418)	(15,414)	1,190	16
19	Less: Non-operating income (including LPG Air Mix)	(2,340)	(2,882)	(2,286)	(2,315)	17
20	Add: Financial charges	1,636	14,467	9,356	12,718	18
21	Non-operating expense including adjustment for UFG targets	33,619	14,552	21,160	2,654	19
22		(370)	9,718	12,816	14,248	20
23						21
24	Return on net fixed assets (B/A*100) (After adjusting inadmissible expenditure)	(1)	17	17	17	22
25						23
26	DEBT SERVICE COVERAGE					
27	Profit before tax	(33,284)	(16,418)	(15,414)	1,190	24
28	Less: Current tax	(9,985)	(4,925)	(4,624)	357	25
29		(23,299)	(11,493)	(10,790)	833	26
30						27
31	Add: Interest on long term loan	1,099	4,912	1,971	5,474	28
32	Depreciation	5,048	5,708	5,294	7,120	29
33	Provisions	695	2,720	796	689	30
34		(16,457)	1,847	(2,728)	14,116	31
35	Amount required to pay loan & int. instalment	8,133	5,778	5,706	6,993	32
36	Loan repayment	1,099	4,912	1,971	5,474	33
37	Interest on loans	9,232	10,690	7,677	12,467	34
38						35
39						36
40	Debt service ratio	(1.78)	0.17	(0.36)	1.13	37
41						38
42	ACID-TEST RATIO/CURRENT RATIO					
43	Current assets (A)	189,599	200,954	184,218	188,396	39
44	Less: Stores and spares (B)	2,949	3,106	3,697	4,594	40
45	Quick or Liquid assets (C=A-B)	186,650	197,848	180,521	183,802	41
46						42
47	Current Liabilities (D)	242,398	232,728	228,211	232,621	43
48						44
49	Acid Test Ratio (C/D)	0.8	0.9	0.8	0.8	45
50	Current Ratio (A/D)	0.8	0.9	0.8	0.8	46
						47
						48
						49
						50

B

SUI SOUTHERN GAS COMPANY LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
For FY 2017-18
INDEX - SECTION - B

Supporting Schedules to Financial Statements		
DESCRIPTION		Table #
GAS PURCHASES AND CONSUMED INTERNALLY		
Field wise	(MMCF)	B-1.1
Field wise	(MMCFD)	B-1.2
Field wise	(MMMBTU)	B-1.3
Cost of Gas based on uniform rate		B-1.4
Gas Consumed Internally		B-1.5
GAS SALES		
Overall	(MMCF)	B-2.1
Unit wise	(MMCF)	B-2.2
Overall	(MMCFD)	B-2.3
Unit wise	(MMCFD)	B-2.4
Overall	(MMMBTU)	B-2.5
Unit wise	(MMMBTU)	B-2.6
Overall	(Rupees in million)	B-2.7
Unit wise	(Rupees in million)	B-2.8
GAS DEVELOPMENT SURCHARGE		
Overall	(Rupees in million)	B-3.1
Unit wise	(Rupees in million)	B-3.2
Un-Accounted For Gas - For Tariff Working		B-4.1
Un-Accounted For Gas		B-4.2
Transmission and Distribution Cost		B-5.1
Schedule of Depreciation		B-6
Transportation Income		B-7
RLNG Transportation Income		B-8
Meter Rental		B-9.1
Deferred Credit		B-9.2
Income from Sale of LPG / NGL & Condensate		B-9.3
Late Payment Surcharge		B-9.4
Meter Manufacturing Profit		B-9.5
Other Income		B-9.6
Other Charges		B-10
Financial Charges		B-11
Addition to Fixed and Intangible Assets		B-12.1
Schedule of Fixed and Intangible Assets at Cost / WDV - For ROA		B-12.2
Activity-wise Average Net Fixed Assets and Return Required		B-12.3
Air Mix LPG projects - profit & loss		B-13.1
Air Mix LPG projects - subsidy		B-13.2
Schedule of Air Mix LPG projects Fixed Assets at Cost / WDV		B-13.3

Table # B-1.1

4C

**SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF FIELD WISE GAS PURCHASES**

VOLUME IN MMCF

S.No.	<u>CATEGORY</u>	Determination	Determination	Revised	Petition	Variance Inc./Dec.	S.No.
		FRR FY 2015-16	ERR FY 2016-17	Estimates ERR FY 2016-17	ERR FY 2017-18	Petition over Determination ERR FY 2016-17	
1	Sui	36,752	38,814	38,897	38,842	28	0.1
2	Kandhkot	577	626	558	558	(69)	(11.0)
3	Badin Block	22,918	16,430	12,278	7,120	(9,310)	(56.7)
4	Kadanwari	16,279	11,875	8,606	5,145	(6,730)	(56.7)
5	Miano	30,460	21,455	24,137	22,086	631	2.9
6	Zamzama	21,182	12,775	17,510	11,506	(1,269)	(9.9)
7	Bhit	96,248	98,560	70,595	59,270	(39,290)	(39.9)
8	Mari	355	342	291	291	(51)	(15.0)
9	Sari / Hundī	410	365	337	365	-	-
10	Mazarani	1,440	914	1,215	1,095	181	19.8
11	Sawan	11,515	7,576	11,349	10,194	2,618	34.6
12	Khipro / Mirpurkhas Block	133,858	158,410	139,995	143,255	(15,155)	(9.6)
13	Zargoon	3,894	4,380	4,415	5,840	1,460	33.3
14	Sinjhoro	9,298	10,950	10,121	10,585	(365)	(3.3)
15	Bobi	1,316	730	1,218	822	92	12.6
16	Maher / Mubarak Block	5,219	6,205	4,912	4,385	(1,820)	(29.3)
17	Pasaki Deep & Kunnar Deep	39,331	44,895	47,090	63,240	18,345	40.9
18	Adam X-1 / Hala	5,551	4,746	6,018	5,840	1,094	23.1
19	Pakhro / Noorai Jagir	1,443	-	1,405	730	730	100.0
20	Hassan / SNGPL Towns - (Ghotki, Rustum, SherAli, Ubaro, etc.)	1,752	1,789	1,852	1,852	64	3.6
21	Latif	13,353	15,520	8,637	6,571	(8,949)	(57.7)
22	Jhal Magsi	-	1,358	-	-	(1,358)	(100.0)
23	Kirther (Rehman)-EWT	3,138	4,380	5,717	7,300	2,920	66.7
24	Nur Bagla fields	1,253	1,095	788	730	(365)	(33.3)
25	Jakhro / Dachrapur / Gopang	3,098	2,191	2,190	1,825	(366)	(16.7)
26	Gambat Block - Wafiq/Shahdad-(XI)	1,907	12,775	12,402	14,600	1,825	14.3
27	Sujawal / Sujjal	6,833	6,205	8,800	8,395	2,190	35.3
28	Ayesha *	-	-	-	3,620	3,620	100.0
29		469,381	485,360	441,331	436,062	(49,298)	(10.2)

Note:- * The project will be initiated after firm commitment of gas supply volume from the producer in FY 2017-18.

Table # B-1.2

**SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF FIELD WISE GAS PURCHASES**

S.No.	CATEGORY	Determination	Determination	Revised	Petition	Variance Inc./Dec.)	S.No.
		FRR FY 2015-16	ERR FY 2016-17	Estimates ERR FY 2016-17	ERR FY 2017-18	Petition over Determination ERR FY 2016-17	
1	Sui	100.4	106.3	106.6	106.4	0.1	1
2	Kandhkot	1.6	1.7	1.5	1.5	(0.2)	2
3	Badin Block	62.6	45.0	33.6	19.5	(25.5)	3
4	Kadanwari	44.5	32.5	23.6	14.1	(18.4)	4
5	Miano	83.2	58.8	66.1	60.5	1.7	5
6	Zamzama	57.9	35.0	48.0	31.5	(3.5)	6
7	Bhit	263.0	270.0	193.4	162.4	(107.6)	7
8	Mari	1.0	0.9	0.8	0.8	(0.1)	8
9	Sari / Hundī	1.1	1.0	0.9	1.0	-	9
10	Mazarani	3.9	2.5	3.3	3.0	0.5	10
11	Sawan	31.5	20.8	31.1	27.9	7.2	11
12	Khipro / Mirpurkhas Block	365.7	434.0	383.5	392.5	(41.5)	12
13	Zargoon	10.6	12.0	12.1	16.0	4.0	13
14	Sinjhoro	25.4	30.0	27.7	29.0	(1.0)	14
15	Bobī	3.6	2.0	3.3	2.3	0.3	15
16	Maher / Mubarak Block	14.3	17.0	13.5	12.0	(5.0)	16
17	Pasaki Deep & Kunnar Deep	107.5	123.0	129.0	173.3	50.3	17
18	Adam X-1 / Hala	15.2	13.0	16.5	16.0	3.0	18
19	Pakhro / Noorai Jagir	3.9	-	3.9	2.0	2.0	19
20	Hassan / SNGPL Towns - (Ghotki, Rustum, SherAli, Ubaro, etc.)	4.8	4.9	5.1	5.1	0.2	20
21	Latif	36.5	42.5	23.7	18.0	(24.5)	21
22	Jhal Magsi	-	3.7	-	-	(3.7)	22
23	Kirther (Rehman)-EWT	8.6	12.0	15.7	20.0	8.0	23
24	Nur Bagla fields	3.4	3.0	2.2	2.0	(1.0)	24
25	Jakhro / Dachrapur / Gopang	8.5	6.0	6.0	5.0	(1.0)	25
26	Gambat Block - Wafiq/Shahdad-(XI)	5.2	35.0	34.0	40.0	5.0	26
27	Sujawal / Sujjal	18.7	17.0	24.1	23.0	6.0	27
28	Ayesha *	-	-	-	9.9	9.9	28
29		1,282.5	1,329.8	1,209.1	1,194.7	(135.1)	29
						(10.2)	

Note:- * The project will be initiated after firm commitment of gas supply volume from the producer in FY 2017-18.

**SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF FIELD WISE GAS PURCHASES**

ENERGY IN MMMBTU

S.No.	CATEGORY	Determination FRR FY 2015-16	Determination ERR FY 2016-17	Revised Estimates ERR FY 2016-17	Petition ERR FY 2017-18	Variance Inc./Dec.) Petition FY 2017-18 over Determination ERR FY 2016-17	S.No.
		%					
1	Sui	35,411	38,465	37,478	37,425	(1,040)	(2.7)
2	Kandhkot	486	523	470	470	(53)	(10.2)
3	Badin Block	24,641	17,038	13,201	7,655	(9,383)	(55.1)
4	Kadanwari	16,180	11,780	8,553	5,114	(6,666)	(56.6)
5	Miano	30,269	21,283	23,985	21,947	664	3.1
6	Zamzama	16,962	10,220	14,021	9,214	(1,006)	(9.8)
7	Bhit	91,483	92,449	67,100	56,336	(36,113)	(39.1)
8	Mari	259	253	212	212	(41)	(16.2)
9	Sari / Hundī	375	319	309	334	15	4.7
10	Mazarani	1,463	927	1,233	1,112	185	20.0
11	Sawan	11,513	7,478	11,348	10,192	2,715	36.3
12	Khipro / Mirpurkhas Block	135,019	165,071	139,863	143,109	(21,962)	(13.3)
13	Zargoon	3,692	4,161	4,186	5,537	1,376	33.1
14	Sinjhoro	9,399	11,114	10,230	10,700	(415)	(3.7)
15	Bobi	1,462	840	1,353	913	74	8.8
16	Maher / Mubarak Block	5,698	5,895	5,363	4,787	(1,107)	(18.8)
17	Pasaki Deep & Kunnar Deep	41,513	46,915	49,703	66,749	19,834	42.3
18	Adam X-1 / Hala	5,811	5,586	6,299	6,113	527	9.4
19	Pakhro / Noorai Jagir	1,599	-	1,558	809	809	100.0
20	Hassan / SNGPL Towns - (Ghotki, Rustum, SherAli, Ubaro, etc.)	1,531	1,554	1,619	1,619	65	4.2
21	Latif	13,347	15,396	8,633	6,568	(8,828)	(57.3)
22	Jhal Magsi	-	1,268	-	-	(1,268)	(100.0)
23	Kirthar (Rehman)-EWT	2,617	4,161	4,768	6,088	1,927	46.3
24	Nur Bagla fields	1,362	1,134	856	793	(341)	(30.1)
25	Jakhro / Dachrapur / Gopang	3,016	2,270	2,132	1,776	(493)	(21.7)
26	Gambat Block - Wafiq/Shahdad-(XI)	2,080	13,235	13,534	15,932	2,697	20.4
27	Sujawal / Sujjal	7,165	5,802	9,229	8,804	3,002	51.7
28	Ayesha *	-	-	-	3,620	3,620	100.0
29		464,356	485,137	437,235	433,930	(51,207)	(10.6)

Note:- * The project will be initiated after firm commitment of gas supply volume from the producer in FY 2017-18.

Table # B-1.4

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS PURCHASES

S.No.	CATEGORY	Determination FRR FY 2015-16	Determination ERR FY 2016-17	Revised Estimates ERR FY 2016-17	Petition ERR FY 2017-18	Variance Inc./Dec.) Petition FY 2017-18 over Determination ERR FY 2016-17	S.No.
1	<u>Volume in MMCF</u>						%
2	Gross Purchases	469,381	485,360	441,331	436,062	(49,298) (10.2)	1
3	Less: Gas Consumed Internally - metered	955	794	1,015	1,243	449 56.6	2
4	Less: (Inc.)/Dec. Gas in pipeline	88				- -	3
5	Less: loss due to sabotage activity / ruptures	39				- -	4
6		468,298	484,566	440,316	434,819	(49,748) (10.3)	5
7						- -	6
8	<u>Energy in MMMBTU</u>						7
9	Gross Purchases	464,356	485,137	437,235	433,930	(51,207) (10.6)	8
10	Less: Gas Consumed Internally - metered	936	783	994	1,219	436 55.6	9
11	Less: (Inc.)/Dec. Gas in pipeline	88				- -	10
12	Less: loss due to sabotage activity / ruptures	39				- -	11
13		463,292	484,354	436,240	432,712	(51,642) (10.7)	12
14						- -	13
15	<u>Amount in Rupees Million</u>						14
16	Gross Purchases	151,400.836	133,500.048	118,083.664	130,506.848	(2,993.200) (2.2)	15
17	Less: Gas Consumed Internally - metered	306.093	215.451	268.581	366.481	151.030 70.1	16
18	Less: (Inc.)/Dec. Gas in pipeline	(5.871)				- -	17
19	Less: loss due to sabotage activity / ruptures	12.665				- -	18
20		151,087.948	133,284.597	117,815.083	130,140.367	(3,144.231) (2.4)	19
21						- -	20
22	Average Rate Rs per MMBTU	326.05	275.18	270.07	300.76	25.58 9.3	21
23	Weighted Average Cost of Gas (Rs per MMBTU)	327.34	275.18	270.07	300.76	25.58 9.3	22

Table # B-1.5

44

**SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS CONSUMED INTERNALLY
AND LOSS DUE TO SABOTAGE ACTIVITIES / THIRD PARTY DAMAGES**

S.No.	CATEGORY	Determination FRR FY 2015-16	Determination ERR FY 2016-17	Revised Estimates ERR FY 2016-17	Petition ERR FY 2017-18	Variance Inc./Dec.) Petition FY 2017-18 over Determination ERR FY 2016-17	S.No.
1	Energy in MMMBTU					%	1
2	Compressor Fuel	778.673	634.831	799.452	1,023.379	389	61
3	LHF Badin	4.180	3.200	1.000	1.000	(2)	(69)
4	Domestic / other use	166.666	174.914	194.038	194.156	19	11
5	Transmission - total	949.519	812.945	994.490	1,218.536	406	50
6	Distribution - total	481.474	487.462	451.469	451.469	(36)	(7)
	Total	1,430.993	1,300.407	1,445.959	1,670.004	370	28
8	Gas Consumed Internally - metered	936.065	782.945	994.490	1,218.536	436	56
9	Gas Consumed Internally - un-metered	17.945	45.170	8.486	8.486	(37)	(81)
10		954.010	828.115	1,002.976	1,227.021	399	48
11	Loss Due To Sabotage Activities	38.731	-	-	-	-	10
12	Third Party Damages - un-metered	438.252	442.292	442.983	442.983	1	0
13	Gross Gas Consumed Internally	1,430.993	1,270.407	1,445.959	1,670.004	400	31
14	Less: Non-Admissible (un-metered)	456.197	487.462	451.469	451.469	(36)	(7)
15	Net Gas Consumed Internally (metered)	974.796	782.945	994.490	1,218.536	436	56
16							16
17	Average Rate - Rs per MMBTU	327.00	275.18	270.07	300.76	25.58	9
18							17
19	Cost of Gas Consumed Internally - Rs Million						18
20	Compressor Fuel	254.626	174.693	215.907	307.787	133	76
21	LHF Badin	1.367	0.881	0.270	0.301	(1)	(66)
22	Domestic / other use	54.500	48.133	52.404	58.393	10	21
23	Transmission - total	310.493	223.706	268.581	366.481	143	64
24	Distribution - total	157.442	134.140	121.928	135.782	2	1
	Total	467.935	357.846	390.509	502.263	144	40
26	Gas Consumed Internally - metered	306.093	215.451	268.581	366.481	151	70
27	Gas Consumed Internally - un-metered	5.868	12.430	2.292	2.552	(10)	(79)
28		311.961	227.881	270.873	369.033	141	62
29	Loss Due To Sabotage Activities	12.665	-	-	-	-	100
30	Third Party Damages - un-metered	143.308	121.710	119.636	133.229	12	9
31	Gross Gas Consumed Internally	467.935	349.591	390.509	502.263	153	44
32	Less: Non-Admissible (un-metered)	149.176	134.140	121.928	135.782	2	1
33	Net Gas Consumed Internally (metered)	318.758	215.451	268.581	366.481	151	70
34	Loss Due To Sabotage Activities - charged to T&	12.665	-	-	-	-	100
35	Gas Consumed Internally - charged to T&D	306.093	215.451	268.581	366.481	151	70
36		318.758	215.451	268.581	366.481	151	70

Table # B-2.1

75

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES

VOLUME IN MMCF

S.No.	CATEGORY	Determination FRR FY 2015-16	Determination ERR FY 2016-17	Revised Estimates ERR FY 2016-17	Petition ERR FY 2017-18	Variance Inc./Dec. Petition FY 2017-18 over Determination ERR FY 2016-17	S.No.
						%	
1	POWER	107,058	99,068	95,127	79,382	(19,686)	(19.9)
2	HABIBULLAH COASTAL POWER	4,898	6,296	4,896	4,896	(1,400)	(22.2)
3	CEMENT	217	511	216	216	(295)	(57.7)
4	FERTILIZER - FEEDSTOCK	18,728	13,227	18,672	18,672	5,445	41.2
5	CNG STATIONS	28,838	29,782	28,978	29,546	(236)	(0.8)
6	CAPTIVE POWER	68,124	76,557	68,069	68,768	(7,789)	(10.2)
7	NOORIABAD POWER PLANT	-	7,300	-	7,300	-	7
8	GENERAL INDUSTRIES	62,334	65,073	62,285	62,436	(2,637)	(4.1)
9	COMMERCIAL	10,256	10,491	10,244	10,385	(105)	(1.0)
10	DOMESTIC	84,536	90,184	86,788	90,171	(13)	(0.0)
11		384,988	398,489	375,276	371,774	(26,715)	(6.7)

**SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES**

VOLUME IN MMCF

S.No.	CATEGORY	Determination FRR FY 2015-16	Determination ERR FY 2016-17	Revised Estimates ERR FY 2016-17	Petition ERR FY 2017-18	Variance Inc./(Dec.) Petition FY 2017-18 over Determination ERR FY 2016-17	S.No.
						%	
1	(A) KARACHI						1
2	TOTAL INDUSTRIAL	207,653	210,639	195,842	188,524	(22,114)	(10.5)
3	POWER - KESC	66,881	63,796	55,016	39,271	(24,526)	(38.4)
4	CEMENT	199	503	199	199	(304)	(60.4)
5	FERTILIZER - Feedstock	18,728	13,227	18,672	18,672	5,445	41.2
6	FERTILIZER - Power	4,471	4,037	4,458	4,458	421	10.4
7	PAK STEEL	1,081	1,095	1,077	1,077	(18)	(1.6)
8	CNG STATIONS	16,137	16,692	16,195	16,509	(182)	(1.1)
9	CAPTIVE POWER	47,988	49,004	48,092	48,791	(212)	(0.4)
10	NOORIABAD POWER PLANT	-	7,300	7,300	-	-	10
11	GENERAL INDUSTRIES	52,167	54,985	52,133	52,246	(2,739)	(5.0)
12							12
13	COMMERCIAL	7,771	7,810	7,712	7,745	(65)	(0.8)
14	DOMESTIC	52,937	55,834	53,998	55,631	(204)	(0.4)
15	SUB TOTAL 'A'	268,361	274,283	257,553	251,900	(22,383)	(8.2)
16							16
17	(B) SINDH EXCLUDING KARACHI						17
18	TOTAL INDUSTRIAL	74,166	77,470	74,071	74,310	(3,160)	(4.1)
19	POWER - WAPDA	38,262	33,580	38,196	38,196	4,616	13.7
20	CEMENT	17	8	17	17	9	112.1
21	CNG STATIONS	11,462	11,664	11,578	11,780	116	1.0
22	CAPTIVE POWER	20,129	27,544	19,967	19,967	(7,577)	(27.5)
23	GENERAL INDUSTRIES	4,295	4,673	4,313	4,350	(324)	(6.9)
24							24
25	COMMERCIAL	1,641	1,661	1,626	1,637	(24)	(1.5)
26	DOMESTIC	22,153	23,965	23,134	24,428	463	1.9
27	SUB TOTAL 'B'	97,960	103,095	98,831	100,374	(2,721)	(2.6)
28							28
29	(C) BALOCHISTAN						29
30	TOTAL INDUSTRIAL	8,379	9,705	8,330	8,384	(1,322)	(13.6)
31	POWER - WAPDA	1,914	1,692	1,915	1,915	223	13.2
32	HABIBULLAH COASTAL POWER	4,898	6,296	4,896	4,896	(1,400)	(22.2)
33	CNG STATIONS	1,239	1,426	1,205	1,257	(169)	(11.8)
34	CAPTIVE POWER	8	9	10	10	1	10.7
35	GENERAL INDUSTRIES	320	282	304	305	23	8.0
36							36
37	COMMERCIAL	843	1,020	906	1,004	(17)	(1.6)
38	DOMESTIC	9,445	10,385	9,655	10,112	(273)	(2.6)
39	SUB TOTAL 'C'	18,667	21,111	18,892	19,499	(1,611)	(7.6)
40							40
41	TOTAL SALES (A+B+C)	384,988	398,489	375,276	371,774	(26,715)	(6.7)

Table # B-2.3

47

**SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES**

VOLUME IN MMCFD

S.No.	CATEGORY	Determination FRR FY 2015-16	Determination ERR FY 2016-17	Revised Estimates ERR FY 2016-17	Petition ERR FY 2017-18	Variance Inc./Dec. Petition FY 2017-18 over Determination ERR FY 2016-17	S.No.
						%	
1	POWER	292.5	271.4	260.6	217.5	(53.9) (19.9)	1
2	HABIBULLAH COASTAL POWER	13.4	17.2	13.4	13.4	(3.8) (22.2)	2
3	CEMENT	0.6	1.4	0.6	0.6	(0.8) (57.7)	3
4	FERTILIZER - Feedstock	51.2	36.2	51.2	51.2	14.9 41.2	4
5	CNG STATIONS	78.8	81.6	79.4	80.9	(0.6) (0.8)	5
6	CAPTIVE POWER	186.1	209.7	186.5	188.4	(21.3) (10.2)	6
7	NOORIABAD POWER PLANT	-	20.0	-	20.0	- -	7
8	GENERAL INDUSTRIES	170.3	178.3	170.6	171.1	(7.2) (4.1)	8
9	COMMERCIAL	28.0	28.7	28.1	28.5	(0.3) (1.0)	9
10	DOMESTIC	231.0	247.1	237.8	247.0	(0.0) (0.0)	10
11		1,051.9	1,091.7	1,028.2	1,018.6	(73.2) (6.7)	11

**SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES**

VOLUME IN MMCFD

S.No.	CATEGORY	Determination FRR FY 2015-16	Determination ERR FY 2016-17	Revised Estimates ERR FY 2016-17	Petition ERR FY 2017-18	Variance Inc./Dec. Petition FY 2017-18 over Determination ERR FY 2016-17	S.No.
						%	
1	(A) KARACHI						1
2	TOTAL INDUSTRIAL	567.4	577.1	536.6	516.5	(60.6)	(10.5)
3	POWER - KESC	182.7	174.8	150.7	107.6	(67.2)	(38.4)
4	CEMENT	0.5	1.4	0.5	0.5	(0.8)	(60.4)
5	FERTILIZER - Feedstock	51.2	36.2	51.2	51.2	14.9	41.2
6	FERTILIZER - Power	12.2	11.1	12.2	12.2	1.2	10.4
7	PAK STEEL	3.0	3.0	3.0	3.0	(0.0)	(1.6)
8	CNG STATIONS	44.1	45.7	44.4	45.2	(0.5)	(1.1)
9	CAPTIVE POWER	131.1	134.3	131.8	133.7	(0.6)	(0.4)
10	NOORIABAD POWER PLANT	-	20.0	-	20.0	-	-
11	GENERAL INDUSTRIES	142.5	150.6	142.8	143.1	(7.5)	(5.0)
12							12
13	COMMERCIAL	21.2	21.4	21.1	21.2	(0.2)	(0.8)
14	DOMESTIC	144.6	153.0	147.9	152.4	(0.6)	(0.4)
15	SUB TOTAL 'A'	733.2	751.5	705.6	690.1	(61.3)	(8.2)
16							16
17	(B) SINDH EXCLUDING KARACHI						17
18	TOTAL INDUSTRIAL	202.6	212.2	202.9	203.6	(8.7)	(4.1)
19	POWER	104.5	92.0	104.6	104.6	12.6	13.7
20	CEMENT	0.0	0.0	0.0	0.0	0.0	112.1
21	CNG STATIONS	31.3	32.0	31.7	32.3	0.3	1.0
22	CAPTIVE POWER	55.0	75.5	54.7	54.7	(20.8)	(27.5)
23	GENERAL INDUSTRIES	11.7	12.8	11.8	11.9	(0.9)	(6.9)
24							24
25	COMMERCIAL	4.5	4.5	4.5	4.5	(0.1)	(1.5)
26	DOMESTIC	60.5	65.7	63.4	66.9	1.3	1.9
27	SUB TOTAL 'B'	267.7	282.5	270.8	275.0	(7.5)	(2.6)
28							28
29	(C) BALOCHISTAN						29
30	TOTAL INDUSTRIAL	22.9	26.6	22.8	23.0	(3.6)	(13.6)
31	POWER	5.2	4.6	5.2	5.2	0.6	13.2
32	HABIBULLAH COASTAL POWER	13.4	17.2	13.4	13.4	(3.8)	(22.2)
33	CNG STATIONS	3.4	3.9	3.3	3.4	(0.5)	(11.8)
34	CAPTIVE POWER	0.0	0.0	0.0	0.0	0.0	10.7
35	GENERAL INDUSTRIES	0.9	0.8	0.8	0.8	0.1	8.0
36							36
37	COMMERCIAL	2.3	2.8	2.5	2.7	(0.0)	(1.6)
38	DOMESTIC	25.8	28.5	26.5	27.7	(0.7)	(2.6)
39	SUB TOTAL 'C'	51.0	57.8	51.8	53.4	(4.4)	(7.6)
40							40
41	TOTAL SALES (A+B+C)	1,051.9	1,091.7	1,028.2	1,018.6	(73.2)	(6.7)

Table # B-2.5

49

**SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES**

ENERGY IN MMMBTU

S.No.	<u>CATEGORY</u>	Determination FRR FY 2015-16	Determination ERR FY 2016-17	Revised Estimates ERR FY 2016-17	Petition ERR FY 2017-18	Variance Inc./Dec. Petition FY 2017-18 over Determination ERR FY 2016-17	S.No.
		%					
1	POWER	108,732	99,285	94,097	78,487	(20,798) (20.9)	1
2	HABIBULLAH COASTAL POWER	4,752	6,185	4,751	4,751	(1,434) (23.2)	2
3	CEMENT	214	505	214	214	(291) (57.7)	3
4	FERTILIZER - Feedstock	18,960	13,382	18,904	18,904	5,522 41.3	4
5	CNG STATIONS	28,482	28,903	28,621	29,182	279 1.0	5
6	CAPTIVE POWER	67,701	74,802	67,648	68,345	(6,457) (8.6)	6
7	NOORIABAD POWER PLANT		7,048		7,237	189 2.7	7
8	GENERAL INDUSTRIES	61,934	63,156	61,887	62,038	(1,119) (1.8)	8
9	COMMERCIAL	10,102	10,057	10,082	10,219	163 1.6	9
10	DOMESTIC	83,101	86,992	85,317	88,641	1,649 1.9	10
11		<u>383,979</u>	<u>390,315</u>	<u>371,521</u>	<u>368,017</u>	<u>(22,297)</u> (5.7)	11

Table # B-2.6

**SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES**

ENERGY IN MMMBTU

S.No.	CATEGORY	Determination FRR FY 2015-16	Determination ERR FY 2016-17	Revised Estimates ERR FY 2016-17	Petition ERR FY 2017-18	Variance Inc./Dec. Petition FY 2017-18 over Determination ERR FY 2016-17	S.No.
1	(A) KARACHI					%	1
2	TOTAL INDUSTRIAL	209,323	207,223	194,808	187,555	(19,668)	(9.5)
3	POWER - KESC	18,921	64,278	54,542	38,932	(25,345)	(39.4)
4	CEMENT	197	497	197	197	(300)	(60.4)
5	FERTILIZER - Feedstock	18,960	13,382	18,904	18,904	5,522	41.3
6	FERTILIZER - Power	4,525	4,084	4,513	4,513	429	10.5
7	PAK STEEL	1,069	1,088	1,065	1,065	(24)	(2.2)
8	CNG STATIONS	15,893	15,927	15,950	16,260	334	2.1
9	CAPTIVE POWER	47,849	47,830	47,953	48,650	820	1.7
10	NOORIABAD POWER PLANT	-	7,048	-	7,237	189	2.7
11	GENERAL INDUSTRIES	51,718	53,089	51,684	51,797	(1,292)	(2.4)
12							12
13	COMMERCIAL	7,668	7,420	7,602	7,635	216	2.9
14	DOMESTIC	52,187	53,230	53,233	54,842	1,612	3.0
15	SUB TOTAL 'A'	269,178	267,873	255,644	250,033	(17,840)	(6.7)
16							16
17	(B) SINDH EXCLUDING KARACHI						17
18	TOTAL INDUSTRIAL	73,326	76,510	73,233	73,471	(3,038)	(4.0)
19	POWER - WAPDA	37,754	33,345	37,689	37,689	4,343	13.0
20	CEMENT	17	8	17	17	9	104.4
21	CNG STATIONS	11,395	11,574	11,510	11,711	137	1.2
22	CAPTIVE POWER	19,844	26,962	19,685	19,685	(7,277)	(27.0)
23	GENERAL INDUSTRIES	4,315	4,620	4,333	4,370	(250)	(5.4)
24							24
25	COMMERCIAL	1,624	1,636	1,609	1,619	(17)	(1.0)
26	DOMESTIC	21,884	23,592	22,853	24,131	539	2.3
27	SUB TOTAL 'B'	96,834	101,738	97,695	99,221	(2,516)	(2.5)
28							28
29	(C) BALOCHISTAN						29
30	TOTAL INDUSTRIAL	8,126	9,533	8,080	8,131	(1,402)	(14.7)
31	POWER	1,866	1,662	1,866	1,866	204	12.3
32	HABIBULLAH COASTAL POWER	4,752	6,185	4,751	4,751	(1,434)	(23.2)
33	CNG STATIONS	1,194	1,402	1,161	1,211	(191)	(13.6)
34	CAPTIVE POWER	8	10	10	10	(0)	(0.8)
35	GENERAL INDUSTRIES	307	275	292	293	19	6.8
36							36
37	COMMERCIAL	811	1,001	871	965	(36)	(3.6)
38	DOMESTIC	9,030	10,170	9,231	9,668	(502)	(4.9)
39	SUB TOTAL 'C'	17,967	20,704	18,182	18,763	(1,940)	(9.4)
40							40
41	TOTAL SALES (A+B+C)	383,979	390,315	371,521	368,017	(22,297)	(5.7)

Table # B-2.7

**SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES**

Rupees Million

S.No.	CATEGORY	Determination FRR FY 2015-16	Determination ERR FY 2016-17	Revised Estimates ERR FY 2016-17	Petition ERR FY 2017-18	Variance Inc./Dec. Petition FY 2017-18 over Determination ERR FY 2016-17	S.No.
						%	
1	POWER	63,024.599	59,570.978	47,870.009	31,394.931	(28,176.047) (47.3)	1
2	HABIBULLAH COASTAL POWER	2,728.594	3,710.744	2,511.442	1,900.349	(1,810.395) (48.8)	2
3	CEMENT	160.390	378.813	160.191	160.191	(218.622) (57.7)	3
4	FERTILIZER - Feedstock	3,069.793	2,676.359	2,328.820	2,325.156	(351.203) (13.1)	4
5	CNG STATIONS	18,872.475	20,231.968	20,034.995	20,427.355	195.387 1.0	5
6	CAPTIVE POWER	37,397.347	44,881.012	40,588.671	41,006.851	(3,874.161) (8.6)	6
7	NOORIABAD POWER PLANT	-	4,228.952	-	4,342.292	113.340 2.7	7
8	GENERAL INDUSTRIES	32,737.438	37,893.742	37,132.320	37,222.575	(671.167) (1.8)	8
9	COMMERCIAL	7,072.509	7,039.670	7,057.747	7,153.607	113.937 1.6	9
10	DOMESTIC	18,340.280	19,769.458	19,342.811	20,264.890	495.432 2.5	10
11	TOTAL SALES - net	183,403.425	200,381.697	177,027.007	166,198.197	(34,183.500) (17.1)	11

Table # B-2.8

**SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES**

Rupees Million

S.No.	CATEGORY	Determination FRR FY 2015-16	Determination ERR FY 2016-17	Revised Estimates ERR FY 2016-17	Petition ERR FY 2017-18	Variance Inc./Dec. FY 2017-18 over Determination ERR FY 2016-17	Petition FY 2017-18 over Determination ERR FY 2016-17	S.No.
		%						
1	(A) KARACHI							1
2	TOTAL INDUSTRIAL	110,460.696	120,648.196	104,020.594	97,384.897	(23,263.299)	(19.3)	2
3	POWER - KESC	11,011.034	38,566.775	27,249.754	15,572.992	(22,993.783)	(59.6)	3
4	CEMENT	147.687	372.669	147.630	147.630	(225.039)	(60.4)	4
5	FERTILIZER - Feedstock	3,069.793	2,676.359	2,328.820	2,325.156	(351.203)	(13.1)	5
6	FERTILIZER - Power	2,623.296	2,450.508	2,707.837	2,707.837	257.329	10.5	6
7	PAK STEEL	601.154	652.948	638.813	638.813	(14.135)	(2.2)	7
8	CNG STATIONS	10,535.123	11,148.603	11,165.309	11,382.069	233.467	2.1	8
9	CAPTIVE POWER	26,409.676	28,697.954	28,771.913	29,190.093	492.139	1.7	9
10	NOORIABAD POWER PLANT				4,342.292	113.340	2.7	10
11	GENERAL INDUSTRIES	26,965.141	31,853.428	31,010.518	31,078.016	(775.412)	(2.4)	11
12								12
13	COMMERCIAL	5,361.966	5,193.798	5,321.701	5,344.818	151.020	2.9	13
14	DOMESTIC	11,284.140	11,789.619	11,862.747	12,328.767	539.148	4.6	14
15	SUB TOTAL 'A'	127,106.802	137,631.613	121,205.041	115,058.482	(22,573.131)	(16.4)	15
16								16
17	(B) SINDH EXCLUDING KARACHI							17
18	TOTAL INDUSTRIAL	42,758.902	47,064.339	42,136.656	37,718.533	(9,345.807)	(19.9)	18
19	POWER	21,845.440	20,007.172	19,656.239	15,075.459	(4,931.713)	(24.6)	19
20	CEMENT	12.703	6.145	12.561	12.561	6.417	104.4	20
21	CNG STATIONS	7,544.395	8,101.670	8,057.107	8,197.485	95.815	1.2	21
22	CAPTIVE POWER	10,983.226	16,177.245	11,810.994	11,810.994	(4,366.250)	(27.0)	22
23	GENERAL INDUSTRIES	2,373.139	2,772.109	2,599.755	2,622.034	(150.075)	(5.4)	23
24								24
25	COMMERCIAL	1,137.238	1,145.144	1,126.215	1,133.528	(11.616)	(1.0)	25
26	DOMESTIC	4,365.231	4,990.285	4,716.007	5,021.678	31.393	0.6	26
27	SUB TOTAL 'B'	48,261.370	53,199.768	47,978.878	43,873.738	(9,326.030)	(17.5)	27
28								28
29	(C) BALOCHISTAN							29
30	TOTAL INDUSTRIAL	4,771.038	5,860.033	4,469.200	3,676.269	(2,183.764)	(37.3)	30
31	POWER	1,070.333	997.031	964.017	746.481	(250.550)	(25.1)	31
32	HABIBULLAH COASTAL POWER	2,728.594	3,710.744	2,511.442	1,900.349	(1,810.395)	(48.8)	32
33	CNG STATIONS	792.957	981.696	812.580	847.801	(133.895)	(13.6)	33
34	CAPTIVE POWER	4.444	5.813	5.764	5.764	(0.049)	(0.8)	34
35	GENERAL INDUSTRIES	174.709	164.749	175.398	175.875	11.125	6.8	35
36								36
37	COMMERCIAL	573.305	700.728	609.831	675.262	(25.466)	(3.6)	37
38	DOMESTIC	2,690.909	2,989.555	2,764.057	2,914.446	(75.109)	(2.5)	38
39	SUB TOTAL 'C'	8,035.252	9,550.316	7,843.088	7,265.977	(2,284.339)	(23.9)	39
40								40
41	TOTAL SALES - net	183,403.425	200,381.697	177,027.007	166,198.197	(34,183.500)	(22.9)	41

Table # B-3.1

**SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS DEVELOPMENT SURCHARGE**

Rupees Million

S.No.	CATEGORY	Determination FRR FY 2015-16	Determination ERR FY 2016-17	Revised Estimates ERR FY 2016-17	Petition ERR FY 2017-18	Variance Inc./Dec. Petition FY 2017-18 over Determination ERR FY 2016-17	%	S.No.
1	POWER	9,936.935	17,648.895	11,122.763	4,668.426	(12,980.469)	(73.5)	1
2	HABIBULLAH COASTAL POWER	408.387	1,099.370	893.675	282.582	(816.788)	(74.3)	2
3	CEMENT	1.178	165.546	33.336	49.510	(116.037)	(70.1)	3
4	FERTILIZER - Feedstock	788.857	(2,973.970)	(4.086)	(7.751)	2,966.220	(99.7)	4
5	CNG STATIONS	270.299	8,028.045	5,266.597	7,064.655	(963.390)	(12.0)	5
6	CAPTIVE POWER	530.891	13,296.748	10,030.103	13,679.202	382.454	2.9	6
7	NOORIABAD POWER PLANT		1,252.898	-	1,877.896	624.999	49.9	7
8	GENERAL INDUSTRIES	2,753.096	11,226.653	13,373.844	16,097.523	4,870.870	43.4	8
9	COMMERCIAL	543.178	2,793.341	2,021.816	2,614.439	(178.902)	(6.4)	9
10	DOMESTIC	1,092.430	(15,427.945)	4,766.164	6,371.802	21,799.747	(141.3)	10
11	TOTAL	16,325.251	37,109.580	47,504.211	52,698.285	15,588.705	42.0	11

Table # B-3.2

**SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS DEVELOPMENT SURCHARGE**

Rupees Million

S.No.	CATEGORY	Determination FRR FY 2015-16	Determination ERR FY 2016-17	Revised Estimates ERR FY 2016-17	Petition ERR FY 2017-18	Variance Inc./Dec. FY 2017-18 over Determination ERR FY 2016-17	Rupees Million
						%	
1	(A) KARACHI						1
2	TOTAL INDUSTRIAL	10,145.414	33,150.410	28,701.328	32,792.734	(357.677)	(1.1)
3	POWER - KESC	1,772.684	11,426.050	6,220.846	2,315.704	(9,110.346)	(79.7)
4	CEMENT	1.123	162.861	31.464	45.628	(117.234)	(72.0)
5	FERTILIZER - Feedstock	788.857	(2,973.970)	(4.086)	(7.751)	2,966.220	(99.7)
7	FERTILIZER - Power	414.005	726.004	963.204	1,171.049	445.045	61.3
8	PAK STEEL	79.273	193.447	217.561	276.265	82.819	42.8
9	CNG STATIONS	151.957	4,423.765	2,933.704	3,936.407	(487.358)	(11.0)
10	CAPTIVE POWER	383.071	8,502.247	7,152.487	9,737.329	1,235.081	14.5
11	NOORIABAD POWER PLANT			1,252.898	1,877.896	624.999	49.9
12	GENERAL INDUSTRIES	1,962.014	9,437.109	11,186.148	13,440.206	4,003.097	42.4
13							13
14	COMMERCIAL	412.943	2,060.899	1,518.164	1,953.378	(107.521)	(5.2)
15	DOMESTIC	611.953	(9,629.964)	2,866.298	3,865.687	13,495.651	(140.1)
16	SUB TOTAL 'A'	11,170.310	25,581.346	33,085.790	38,611.799	13,030.453	50.9
17							17
18	(B) SINDH EXCLUDING KARACHI						18
19	TOTAL INDUSTRIAL	3,937.040	14,758.948	10,638.676	10,154.538	(4,604.410)	(31.2)
20	POWER	3,412.462	5,927.458	4,692.207	2,241.721	(3,685.737)	(62.2)
21	CEMENT	0.055	2.685	1.872	3.882	1.197	44.6
22	CNG STATIONS	104.844	3,214.743	2,125.987	2,835.041	(379.701)	(11.8)
23	CAPTIVE POWER	147.813	4,792.778	2,876.286	3,939.951	(852.828)	(17.8)
24	GENERAL INDUSTRIES	271.866	821.283	942.324	1,133.942	312.659	38.1
25							25
26	COMMERCIAL	86.060	454.393	324.019	414.272	(40.121)	(8.8)
27	DOMESTIC	259.003	(4,658.563)	1,101.885	1,528.450	6,187.013	(132.8)
28	SUB TOTAL 'B'	4,282.103	10,554.778	12,064.580	12,097.259	1,542.481	14.6
29							29
30	(C) BALOCHISTAN						30
31	TOTAL INDUSTRIAL	607.189	1,834.826	1,376.228	764.772	(1,070.054)	(58.3)
32	POWER	159.359	295.387	209.710	111.002	(184.385)	(62.4)
33	HABIBULLAH COASTAL POWER	408.387	1,099.370	893.675	282.582	(816.788)	(74.3)
34	CNG STATIONS	13.498	389.537	206.905	293.206	(96.331)	(24.7)
35	CAPTIVE POWER	0.008	1.722	1.330	1.923	0.200	11.6
36	GENERAL INDUSTRIES	25.937	48.810	64.608	76.060	27.250	55.8
37							37
38	COMMERCIAL	44.175	278.049	179.632	246.789	(31.260)	(11.2)
39	DOMESTIC	221.473	(1,139.418)	797.981	977.665	2,117.083	(185.8)
40	SUB TOTAL 'C'	872.837	973.456	2,353.841	1,989.226	1,015.770	104.3
41	TOTAL	16,325.251	37,109.580	47,504.211	52,698.285	15,588.705	42.0

Table # B-4.1

SUI SOUTHERN GAS COMPANY LIMITED
UN-ACCOUNTED FOR GAS - FOR TARIFF WORKING

MMCF

S.No.	Description	Determination FRR FY 2015-16	Determination ERR FY 2016-17	Revised Estimates ERR FY 2016-17	Petition ERR FY 2017-18	S.No.
1	Gross Purchases	469,381	485,360	441,331	436,062	1
2						2
3	Gas Consumed Internally - metered (Inc.)/Dec. Gas in pipeline	955	794	1,015	1,243	3
4		88	-	-	-	4
5	Loss due to sabotage activity / ruptures - unmetered	39	-	-	-	5
6	Gas Consumed Internally - metered	1,083	794	1,015	1,243	6
7	Available for Sale	468,298	484,566	440,316	434,819	7
8						8
9	Gas Sales	384,988	398,489	375,276	371,774	9
10	Gas Delivered to SNGPL as per GOP decision under SWAP arrangement	7,822	8,273	-	-	10
11	Add: Unbilled pilfered volume in law & order affected areas	1,850	-	-	-	11
12	Add: Pilfered volume detected against non-consumer	5,110	-	9,273	9,273	12
13	Add: Gas Shrinkage at - LPG / NGL(JVLL)	4,038	4,380	5,425	5,425	13
14	Add: Gas Shrinkage at - Condensate (LHF)	210	324	211	256	14
15		404,019	411,465	390,184	386,727	15
16						16
17	Gas Unaccounted For	64,279	73,101	50,131	48,092	17
18	Gas Unaccounted For (%)	13.73%	15.09%	11.39%	11.06%	18
19						19
20	Disallowled volumes - MMCF	43,206	51,296	10,283	8,741	20
21	Allowable Gas Unaccounted For	21,073	21,805	39,849	39,351	21
22	Effective UFG Benchmark	4.50%	4.50%	9.05%	9.05%	22
23	Disallowled volumes - MMMBTU	43,094	50,242	10,071	8,560	23
24	WACOG - Rs per MMBTU	327.34	275.18	270.07	300.76	24
25	Disallowled value over & above UFG targets - Rs Million	14,106	13,826	2,720	2,575	25

Note:- Beta (performance against KMI's) based on 100%.

Table # B-4.2

**SUI SOUTHERN GAS COMPANY LIMITED
UN-ACCOUNTED FOR GAS**

MMCF

S.No.	Description	FRR FY 2015-16	ERR FY 2016-17	Revised Estimates ERR FY 2016-17	Petition ERR FY 2017-18	S.No.
1	Gross Purchases	469,381	485,360	441,331	436,062	1
2						2
3	Gas Consumed Internally - metered	955	794	1,015	1,243	3
4	(Inc.)/Dec. Gas in pipeline	88	-	-	-	4
5	Loss due to sabotage activity / ruptures - unmetered	39	-	-	-	5
6	Damage by third party - unmetered	444	448	448	448	6
7	Gas Consumed Internally - unmetered	18	45	15	15	7
8		1,544	1,288	1,479	1,707	8
9	Available for Sale	467,837	484,073	439,852	434,355	9
10						10
11	Gas Sales	384,988	398,489	375,276	371,774	11
12	Additional Gas Delivered to SNGPL under SWAP arrangement to meet RLNG energy requirement	7,822	8,273			12
13	Add: Bulk Retail Ratio	21,784	25,759	-	-	13
14	Add: Unbilled pilfered volume in law & order affected areas	2,467	2,355	-	-	14
15	Add: Pilfered volume detected against non-consumer	6,690	8,000	9,273	9,273	15
16	Add: Gas Shrinkage at - LPG / NGL(JVLL)	4,038	4,380	5,425	5,425	16
17	Add: Gas Shrinkage at - Condensate (LHF)	210	324	211	256	17
18		428,000	447,579	390,184	386,727	18
19						19
20	Gas Unaccounted For	39,837	36,493	49,668	47,628	20
21	Gas Unaccounted For (%)	8.52%	7.54%	11.29%	10.97%	21
22						22
23	Without Adjustment UFG MMCF	70,778	72,608	58,940	56,900	23
24	UFG %	15.13%	15.00%	13.40%	13.10%	24

Table # B-6

SUI SOUTHERN GAS COMPANY LIMITED
SCHEDULE OF DEPRECIATION

Rupees Million

S.No.	DESCRIPTION	Determination FRR FY 2015-16	+ Determination ERR FY 2016-17	Revised Estimates ERR FY 2016-17	Petition ERR FY 2017-18	Variance Inc./(Dec.) FY 2017-18 over Determination ERR FY 2016-17	Rupees Million S.No.
						%	
1	Building	125.469		120.063	149.242		1
2	Roads, pavements and related infrastructures	8.242		20.519	23.348		2
3	Gas transmission pipelines	434.305		575.388	1,226.672		3
4	Compressors	92.131		179.923	620.265		4
5	Plant and Machinery	171.426		194.456	250.385		5
6	Gas distribution systems	3,942.538		3,824.354	3,940.782		6
7	Office Furniture, equipment & computer	119.524		176.940	339.516		7
8	Computer Software (Intangible)	30.929		24.830	59.177		8
9	LPG Air Mix Projects	54.907		67.312	75.849		9
10	Telecommunication system	67.920		78.461	91.195		10
11	Appliances, loose tools and equipments	27.784		51.551	140.747		11
12	Vehicles	169.116		194.410	372.388		12
13	Construction equipment	59.482		275.247	421.913		13
14	SCADA	20.592		69.309	74.654		14
15		5,324.365	6,441.577	5,852.762	7,786.132	1,344.555	20.9
16	Less: Meter Manufacturing Plant	25.939	31.891	33.405	30.155	(1.736)	(5.4)
17	LPG Air Mix Projects	54.907	55.832	67.312	75.849	20.017	35.9
18	Depreciation charge to capital projects	85.120	569.448	307.243	453.909	(115.540)	(20.3)
19		165.966	657.171	407.960	559.912	(97.258)	(14.8)
20		5,158.399	5,784.406	5,444.803	7,226.219	1,441.813	24.9
21	POLICY CHANGE PURSUANT TO APPLICATION OF IFRIC-4						21
22	Less:						22
23	# Recovery of service cost (gas transportation)	110.162	76.814	150.465	105.819	29.005	37.8
24	Total	5,048.237	5,707.592	5,294.338	7,120.400	1,412.808	24.8

Note:- # Treatment pursuant to IFRIC-4.

★ Breakup not provided in Determination.

Table # B-5.1

**SUI SOUTHERN GAS COMPANY LIMITED
TRANSMISSION AND DISTRIBUTION COST**

Rupees Million

S.No.	DESCRIPTION	Determination FRR FY 2015-16	Determination ERR FY 2016-17	Revised Estimates ERR FY 2016-17	Petition ERR FY 2017-18	Variance Inc./Dec. Petition FY 2017-18 over Determination ERR FY 2016-17	S.No.
		%					
1	Salaries, wages, and benefits at benchmark	11,544.000	12,928.000	12,761.000	13,840.000	912.000	7.1
2	Gas consumed internally	306.093	215.451	268.581	366.481	151.030	70.1
3	Loss due sabotage activity	12.665	-	-	-	-	3
4	Other T&D Cost						4
5	Stores, spares and supplies consumed	659.230	813.000	793.000	998.000	185.000	22.8
6	Material used on consumers installations	37.485	44.000	39.000	41.000	(3.000)	(6.8)
7	Impairment of Capital WIP	130.000	-	-	-	-	7
7	Electricity	192.819	232.000	218.000	227.000	(5.000)	(2.2)
8	Rent, rate & taxes	163.768	199.000	193.000	222.500	23.500	11.8
9	Traveling	97.733	109.000	105.000	141.000	32.000	29.4
10	Insurance	118.804	140.000	138.000	145.500	5.500	3.9
11	Postage & revenue stamps	87.934	97.000	96.000	121.000	24.000	24.7
12	Repairs & maintenance	1,373.904	1,506.000	1,692.000	2,050.000	544.000	36.1
13	Legal charges	90.000	81.000	87.000	105.000	24.000	29.6
14	Professional charges	93.000	46.000	43.000	80.000	34.000	73.9
15	License Fee to OGRA	99.466	166.843	70.854	57.662	(109.181)	(65.4)
16	Meter reading by contractors	67.382	75.000	72.000	85.000	10.000	13.3
17	Collecting agent commission	2.814	3.000	2.000	3.000	-	17
18	Security expenses	470.386	561.000	512.000	582.000	21.000	3.7
19	Gas bills collection charges	178.466	187.356	187.356	194.000	6.644	3.5
20	Gas bills stubs processing charges	19.217	22.765	21.000	24.000	1.235	5.4
21	Advertisement	102.707	125.000	106.000	115.000	(10.000)	(8.0)
22	Others	122.847	150.000	177.000	208.000	58.000	38.7
24	Sub-total other T&D cost	4,107.963	4,557.964	4,552.210	5,399.662	841.698	18.5
25	GROSS T&D COST	15,970.722	17,701.415	17,581.791	19,606.143	1,904.728	10.8
26	Less: Recoveries / Allocations	1,858.607	1,959.000	1,395.390	1,833.578	(125.422)	(6.4)
27	Net Transmission & Distribution Cost	14,112.114	15,742.415	16,186.402	17,772.565	2,030.150	12.9
28	Add: Project Cost						28
29	Revenue expenditure relating to LNG	26.000	62.000	51.000	93.000	31.000	50.0
30	Sub-total project cost	26.000	62.000	51.000	93.000	31.000	50.0
31	Net Transmission & Distribution Cost including LNG Expenses	14,138.114	15,804.415	16,237.402	17,865.565	2,061.150	13.0
32	POLICY CHANGE PURSUANT TO APPLICATION OF IFRIC4						32
33	Less:						33
34	# Recovery of service cost (gas transportation)	288.913	295.170	584.975	426.090	130.920	44.4
35	Total	13,849.202	15,509.245	15,652.426	17,439.475	1,930.230	12.4

Note:- # Treatment pursuant to IFRIC-4.

Table # B-7

**SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS TRANSPORTATION INCOME**

S.No.	DESCRIPTION	Determination	Determination	Revised	Petition	Rupees Million	S.No.
		FRR FY 2015-16	ERR FY 2016-17	Estimates ERR FY 2016-17	ERR FY 2017-18	Variance Inc./Dec.) Petition FY 2017-18 over Determination ERR FY 2016-17	
1						%	1
2	40 KM Segment from Paish Bogi to Pirkoh to OGDC						2
3	Operating Cost	-	-	222.024	55.506	55.506	3
4	Depreciation	-	-		-	-	4
5	Return	-	-		-	-	5
6	Total	★ -	-	222.024	55.506	55.506	6
7							7
8	BHIT GAS PIPELINE						8
9	Operating Cost	17.072	-	67.781	46.097	46.097	9
10	Depreciation	20.543	-	73.651	44.891	44.891	10
11	Return	27.257	-	105.525	69.047	69.047	11
12	Total	★★ 64.872	-	246.957	160.035	160.035	12
13							13
14	ZAMZAMA REVERSE FLOW						14
15	Operating Cost	196.683	218.223	218.223	239.946	21.722	10.0
16	Depreciation	83.929	60.928	60.928	60.928	-	15
17	Return	77.682	67.326	67.326	56.968	(10.358)	16
18	Total	358.293	346.478	346.478	357.842	11.364	3.3
19							19
20	HASSAN GAS TRANSPORTATION						20
21	Operating Cost	75.158	76.947	76.947	84.541	7.595	9.9
22	Depreciation	5.690	15.886	15.886	-	(15.886)	(100.0)
23	Return	1.277	1.017	1.017	-	(1.017)	(100.0)
24	Total	82.125	93.849	93.849	84.541	(9.308)	(9.9)
25							25
26	ZARGHUN GAS PIPELINE						26
27	Pipeline Rental Income	★ -	67.552	★ -	★ -	(67.552)	(100.0)
28							28
29	TOTAL TRANSPORTATION INCOME						29
30	Operating Cost	288.913	295.170	584.975	426.090	130.920	44.4
31	Depreciation	110.162	76.814	150.465	105.819	29.005	37.8
32	Return	106.216	68.343	173.868	126.015	57.672	84.4
33	Add: Pipeline Rental Income	-	67.552	-	-	(67.552)	(100.0)
34	Total	505.291	507.879	909.308	657.925	150.045	29.5
35							35
36	POLICY CHANGE PURSUANT TO APPLICATION OF IFRIC4						36
37	Less and Transfer to:						37
38	Transmission & Distribution Cost	288.913	295.170	584.975	426.090	130.920	44.4
39	Depreciation	110.162	76.814	150.465	105.819	29.005	37.8
40	Return as financial income	106.216	68.343	173.868	126.015	57.672	84.4
41		505.291	440.327	909.308	657.925	217.598	49.4
42	Operating Income Transportation	-	67.552	-	-	(67.552)	(100.0)

Note:- ★ Agreement with ODGCL has been expired on 30 June 2013. Provisional estimated operating cost only with arrears.

★ Agreement with ENI has been expired on 30 November 2015. Provisional estimated with arrears.

★ As per the Pipeline Contribution Agreement with Mari Gas an amount of \$ 51,176 per month is recoverable from them in 11 years (i.e. 132 monthly installments) as contribution towards the cost of pipeline. Therefore it has been classified under Table # B-9.6.

Table # B-8

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF RLNG TRANSPORTATION INCOME
TRANSPORTATION TARIFF (PROVISIONAL) UNDER GTA BETWEEN
SSGC AND SNGPL

S.No.	DESCRIPTION	Petition ERR FY 2017-18	S.No.
1		(MMCFD)	1
2	Total Capacity of the transportation pipeline	A 1,200.00	2
3	Shipper's Contracted Capacity	B 600.00	3
4	Capacity actually operated by the transporter	C 600.00	4
5	Capacity actually utilized by the Shipper	D 600.00	5
6			6
7	TRANSPORTATION COST	(Million Rupees)	7
8	Fixed Costs:		8
9	Operating and maintenance cost	270.400	9
10	Depreciation on book value of the segment	1,786.316	10
11	ROA on book value of the segment	7,094.497	11
12		9,151.213	12
13	Variable Costs:		13
14	Compression fuel	-	14
15	Other variable expenses, if any	67.600	15
16		67.600	16
17			17
18	TRANSPORTATION TARIFF		18
19	Capacity charges based on Shipper's contracted capacity against total capacity	G=E*B/A 4,575.607	19
20			20
21	Commodity charges based on volume actually transported against actually operated	H=F*D/C 67.600	21
22			22
23	Total Tariff for the year	I 4,643.207	23
24			24
25	Monthly Tariff	J 386.934	25
26			26
27	Total volume Transported per month - MMCF K=D*30	18,000	27
28			28
29	Transportation Tariff Rs. / MCF	L=J/K*1000 21.50	29
30			30
31	Transportation Tariff Rs. / MMBTU {Rate per MMBTU= Rs./MCF*1000/GCV}	M=L*1000/1050 20.47	31

Table # B-9.1

SUI SOUTHERN GAS COMPANY LIMITED
METER RENTAL

S.No.	DESCRIPTION	Determination FRR FY 2015-16	Determination ERR FY 2016-17	Revised Estimates ERR FY 2016-17	Petition ERR FY 2017-18	Variance Inc./Dec. Petition FY 2017-18 over Determination ERR FY 2016-17	Rupees Million	S.No.
		%						
1	Domestic	659.036	688.404	683.972	711.402	22.998	3.3	1
2	Commercial	27.703	29.267	28.132	28.593	(0.674)	(2.3)	2
3	Industrial	32.040	32.266	32.286	32.570	0.304	0.9	3
4		718.779	749.937	744.391	772.565	22.628	3.0	4

Table # B-9.2

**SUI SOUTHERN GAS COMPANY LIMITED
DEFERRED CREDIT**

S.No.	DESCRIPTION	Determination	Determinatio	Revised	Petition	Variance Inc./Dec.)	Rupees Million
		FRR FY 2015-16	ERR FY 2016-17	Estimates ERR FY 2016-17	ERR FY 2017-18	Petition FY 2017-18 over Determination ERR FY 2016-17	S.No.
1							
2	Opening as at 01st July	5,316.910	4,940.588	5,033.878	4,533.000	(407.588)	1
3						(8.2)	2
4	Addition during the year	150.027	26.456	94.878	385.964	359.508	3
5						1,358.9	4
6	<u>Amortization of Deferred Credit</u>	5,466.968	4,967.044	5,128.756	4,918.964	(48.080)	5
7	Amortization as on 30th June	425.588	432.721	433.090	434.044	1.323	6
8	On addition @ 5%	7.501	1.323	4.744	19.298	17.975	7
9						1,358.9	8
10	Closing as at 30th June	433.090	434.044	437.833	453.342	19.298	9
		5,033.878	4,533.000	4,690.923	4,465.622	(67.378)	10

Note:- Amortization of deferred credit related to :

Gas Activity	406.096	407.049	410.839	426.348
LPG Air Mix Projects	26.994	26.994	26.994	26.994
Total	433.090	434.044	437.833	453.342

Table # B-9.3

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT SHOWING REVENUE - LPG/CONDENSATE/NGL

S.No.	DESCRIPTION	Determination	Determination	Revised	Petition	Rupees Million	% S.No.
		FRR FY 2015-16	ERR FY 2016-17	Estimates ERR FY 2016-17	ERR FY 2017-18	Variance Inc./Dec.) Petition FY 2017-18 over Determination ERR FY 2016-17	
							S.No.
1							1
2	<u>REVENUE FROM SALES OF LPG</u>						2
3	Sale of LPG	6,161.422	6,613.200	6,311.095	6,143.600	(469.600) (7.1)	3
4	Processing charges	3,307.173	3,884.950	3,257.917	3,134.956	(749.993) (19.3)	4
5	NET INCOME FROM LPG	2,854.249	2,728.251	3,053.178	3,008.644	280.393 10.3	5
6							6
7	<u>REVENUE FROM SALES OF CONDENSATE (NGL)</u>						7
8	Sales of Condensate (NGL)	2,171.899	3,047.739	2,271.327	2,146.890	(900.850) (29.6)	8
9	Processing charges	1,423.268	1,633.579	1,423.984	1,429.171	(204.408) (12.5)	9
10	NET INCOME FROM NGL	748.630	1,414.160	847.343	717.718	(696.442) (49.2)	10
11							11
12	Gross Income from Sale of LPG/NGL/Condensate	8,333.320	9,660.939	8,582.422	8,290.490	(1,370.450) (14.2)	12
13	Processing charges / etc.	4,730.441	5,518.529	4,681.901	4,564.128	(954.401) (17.3)	13
14	Income from Sale of LPG / NGL	3,602.879	4,142.411	3,900.521	3,726.362	(416.049) (10.0)	14

Table # B-9.4

**SUI SOUTHERN GAS COMPANY LIMITED
LATE PAYMENT SURCHARGE**

Rupees Million

S.No.	DESCRIPTION	Determination FRR FY 2015-16	Determination ERR FY 2016-17	Revised Estimates ERR FY 2016-17	Petition ERR FY 2017-18	Variance Inc./Dec.) Petition FY 2017-18 over Determination FRR FY 2016-17	S.No.
		%					
1	Domestic Consumers	713.964	794.026	740.978	770.694	(23.332)	(2.9) 1
2	Commercial Consumers	78.423	110.064	79.640	80.945	(29.120)	(26.5) 2
3	General Industrial Consumers	142.994	246.652	144.090	145.357	(101.295)	(41.1) 3
4	<u>Major outstanding</u>						4
5	DHA COGEN	344.820		194.911	194.911	194.911	100.0 5
6	IPP Vs CPP Litigation Cases	364.681		123.045	123.045	123.045	100.0 6
7	Others Gen.Ind. Litigation Cases	45.544		10.803	10.803	10.803	100.0 7
8	HABIBULLAH COASTAL	507.278		2,027.247	1,631.767	1,631.767	100.0 8
9	Total	2,197.704	1,150.742	3,320.712	2,957.521	1,806.779	157.0 9

()

Table # B-9.5

**SUI SOUTHERN GAS COMPANY LIMITED
METER MANUFACTURING PROFIT**

S.No.	DESCRIPTION	Determination FRR FY 2015-16	Determination ERR FY 2016-17	Revised Estimates ERR FY 2016-17	Petition ERR FY 2017-18	Variance Inc/(Dec) Petition FY 2017-18 over Determination ERR FY 2016-17	S.No.
1	BOTH METERS					%	1
2	NO.OF METERS PRODUCED	498,673	988,600	800,000	956,820	(31,780)	2
3						-	3
4	SNGPL	103,399	544,000	200,000	295,000	(249,000)	4
5	OTHERS	811	8,000	8,000	8,000	-	5
6	TOTAL OUTSIDE SALE	104,210	552,000	208,000	303,000	(249,000)	6
7	COMPANY'S CONSUMPTION	357,820	436,600	592,000	653,820	217,220	7
8	TOTAL SALE (NOS.)	462,030	988,600	800,000	956,820	(31,780)	8
9						-	9
10						-	10
11	COMPANY'S CONSUMPTION	1,188.935	1,090.756	1,721.878	2,000.930	910.174	11
12	OUTSIDE SALE	369.028	2,595.760	844.837	1,234.583	(1,361.177)	12
13	NET SALES	1,557.963	3,686.516	2,566.715	3,235.513	(451.003)	13
14	OPENING STOCK	14.761	14.761	14.761	14.761	-	14
15	MATERIAL CONSUMED	936.638	2,351.557	1,746.953	2,293.841	(57.716)	15
16	LABOUR & OVERHEADS	589.988	668.505	606.683	708.965	40.460	6.1
17	DEPRECIATION	25.939	31.891	33.405	30.155	(1.736)	(5.4)
18	AVAILABLE FOR SALE	1,567.326	3,066.714	2,401.802	3,047.722	(18.992)	(0.6)
19	LESS CLOSING STOCK	(14.761)	(14.761)	(14.761)	(14.761)	-	19
20	COST OF SALES	1,552.565	3,051.953	2,387.041	3,032.962	(18.992)	(0.6)
21	OPERATING PROFIT	5.398	634.563	179.674	202.552	(432.011)	(68.1)
22	Add: OTHER INCOME	9.407	6.178	2.760	6.178	-	22
23	TOTAL PROFIT	14.805	640.741	182.434	208.730	(432.011)	(67.4)

**SUI SOUTHERN GAS COMPANY LIMITED
OTHER INCOME**

S.No.	DESCRIPTION	Determination FRR FY 2015-16	Determination ERR FY 2016-17	Revised Estimates ERR FY 2016-17	Petition ERR FY 2017-18	Variance Inc./Dec.) Petition FY 2017-18 over Determination ERR FY 2016-17	Rupees Million
		%	S.No.				
1	Profit/Interest on term deposits	174.110	231.740	231.740	215.299	(16.441)	(7.1)
2	Interest income on loan to related party	118.675	132.259	125.214	126.342	(5.917)	(4.474)
3	Interest on staff loans	-	0.028	0.028	0.009	(0.019)	(67.9)
4	Interest income from KESC / WAPDA	241.614	-	258.267	258.267	258.267	-
5	Interest income from JVVL	275.630	-	114.516	13.424	13.424	-
6	Interest income from SNGPL	1,146.820	2,392.280	868.291	868.291	(1,523.989)	(63.7)
7	Interest income from SSGC LPG Pvt. Ltd. *	0.110	13.227	-	-	(13.227)	(100.0)
8	Income for receivable against asset contribution	40.559	-	38.292	36.619	36.619	-
9	Recoveries from consumers	78.940	68.995	68.995	73.187	4.192	6.1
10	Profit on sale of fixed assets	98.136	-	-	-	-	10
11	Dividend Income	1.186	1.971	1.971	1.171	(0.800)	(40.6)
12	Liquidated damages recovered	264.175	14.933	14.933	15.000	0.067	0.4
13	Income from sale of tender documents	5.001	3.725	3.725	4.834	1.109	29.8
14	Advertising income	4.657	5.697	5.697	5.258	(0.439)	(7.7)
15	Income from net investment in finance lease	106.216	68.343	173.868	126.015	57.672	84.4
16	Income from new service connection	299.543	279.817	286.357	300.408	20.591	7.4
17	Income from Pipeline Construction	202.605	-	-	-	-	17
18	Margin for LSA Management	-	-	478.161	620.933	620.933	-
19	Others	69.536	18.394	19.034	20.000	1.606	8.7
20	TOTAL	3,127.513	3,231.409	2,689.089	2,685.057	(546.351)	(16.9)
21	NON-OPERATING INCOME						21
22	Profit/Interest on term deposits	174.110	231.740	231.740	215.299	(16.441)	(7.1)
23	Interest on staff loans	-	0.028	0.028	0.009	(0.019)	(67.9)
24	Interest income from KESC / WAPDA	241.614	-	258.267	258.267	258.267	-
25	Interest income from JVVL	275.630	-	114.516	13.424	13.424	-
26	Interest income from SNGPL	1,146.820	2,392.280	868.291	868.291	(1,523.989)	(63.7)
27	Interest income from SSGC LPG Pvt. Ltd. *	0.110	13.227	-	-	(13.227)	(100.0)
28	Interest on short term loan to subsidiary	118.675	132.259	125.214	126.342	(5.917)	(4.5)
29	Income for receivable against asset contribution	40.559	-	38.292	36.619	36.619	-
30	Advertising income	-	-	5.697	5.258	5.258	-
31	Dividend Income	1.186	1.971	1.971	1.171	(0.800)	(40.6)
32	Liquidated damages recovered - 50%	132.088	7.467	7.467	7.500	0.034	0.4
33	Income from Pipeline Construction - 50%	101.302	-	-	-	-	33
34	Margin for LSA Management	-	-	478.161	620.933	620.933	-
34	TOTAL	2,232.094	2,778.971	2,129.644	2,153.113	(625.858)	(22.5)
35	NET OF NON-OPERATING INCOME	895.419	452.438	559.445	531.944	79.507	17.6

Note:- * due to advance payment mechanism not considered in 2017-18.

**SUI SOUTHERN GAS COMPANY LIMITED
OTHER CHARGES**

Rupees Million

S.No.	DESCRIPTION	Determination FRR FY 2015-16	Determination ERR FY 2016-17	Revised Estimates ERR FY 2016-17	Petition ERR FY 2017-18	Variance Inc./Dec.) over Determination ERR FY 2016-17	S.No.
		%					
1	Profit before tax & other charges	(20,971.058)	(922.571)	(4,124.495)	15,920.861	16,843.432	(1,825.7)
2	Less: Air Mix LPG projects profit	108.197	103.220	156.166	162.272	59.051	57.2
3	Profit before tax & other charges	(21,079.255)	(1,025.791)	(4,280.661)	15,758.589	16,784.381	(1,636.2)
4	<u>Less:</u>					-	
5	Financial charges	10,287.804	14,466.763	9,356.096	12,718.195	(1,748.568)	(12.1)
6	Sports club expenses	58.897	75.000	58.897	58.897	(16.103)	(21.5)
7	Corporate social responsibility	46.463	91.000	46.463	46.463	(44.537)	(48.9)
8	Exchange loss on payment of gas purchases	243.441				-	8
9	Provision against impaired stores & spares / for slow moving obsolete stores	29.527				-	9
10	Provision against impaired debts and other receivables	1,625.101	547.000	1,808.000	1,833.000	1,286.000	235.1
11	Other / auditors' fees	21.863	20.000	20.000	20.000	-	11
12		12,313.096	15,199.763	11,289.456	14,676.555	(523.208)	(3.4)
13	Sub-total operating profit	(33,392.351)	(16,225.555)	(15,570.117)	1,082.034	17,307.589	(106.7)
14	Add: Interest on WPF					-	14
15		(33,392.351)	(16,225.555)	(15,570.117)	1,082.034	17,307.589	(106.7)
16	WPPF	-	+ 295.682	-	54.102	(241.580)	(81.7)
17	Add: Other / auditors' fees	2,025.292	733.000	1,933.360	1,958.360	1,225.360	167.2
18	Total Other Charges	2,025.292	1,028.682	1,933.360	2,012.462	983.780	95.6
19	<u>Less: Non-admissible</u>					-	19
20	Sports club expenses	(58.897)	(75.000)	(58.897)	(58.897)	16.103	(21.5)
21	Corporate social responsibility	(21.088)	(36.000)	(21.088)	(21.088)	14.913	(41.4)
22	Provision against impaired debts and other receivables	(774.443)				-	22
23	Sub-total non-admissible	(854.428)	(111.000)	(79.985)	(79.985)	31.016	(27.9)
24	Net Other Charges	1,170.865	917.682	1,853.376	1,932.478	1,014.796	110.6

Note:- + Restricted as per determination.

Table # B-11

**SUI SOUTHERN GAS COMPANY LIMITED
FINANCIAL CHARGES**

S.No.	DESCRIPTION	Determination	Determination	Revised	Petition	Rupees Million
		FRR FY 2015-16	ERR FY 2016-17	Estimates ERR FY 2016-17	ERR FY 2017-18	Variance Inc./Déc.) Petition FY 2017-18 over Determination ERR FY 2016-17
1	Consumer Financing	1.050	8.000	8.000	8.000	-
2	Credit Allocation / New Loans		4,485.675		1,176.883	(3,308.792) (73.8)
3	Short term borrowing	70.509	316.667	273.333	293.333	(23.333) (7.4)
4	Local Bank Loans	1,615.985	929.651	3,079.920	4,811.851	3,882.200 417.6
5	Government of Sindh Loans	209.770	183.600	183.600	157.600	(26.000) (14.2)
6	Gross Financial Charges	1,897.314	5,923.592	3,544.854	6,447.668	524.075 8.8
7						%
8	<u>LESS: INTEREST CAPITALIZED</u>	727.008	686.586	1,292.130	672.450	(14.136) (2.1)
9						
10	<u>ADD: INTEREST ON OTHER CHARGES</u>					
11	Consumer Deposits	286.154	217.417	188.592	250.946	33.529 15.4
12	Interest on delayed payment of gas producers bills	8,651.427	8,680.900	6,330.655	6,330.655	(2,350.245) (27.1)
13	Others	179.917	331.440	584.125	361.376	29.936 9.0
14		9,117.498	9,229.757	7,103.372	6,942.977	(2,286.779) (24.8)
15	TOTAL FINANCIAL CHARGES	10,287.804	14,466.763	9,356.096	12,718.195	(1,748.568) (12.1)

()

Table # B-12.1

**SUI SOUTHERN GAS COMPANY LIMITED
ADDITION TO FIXED AND INTANGIBLE ASSETS**

S.No.	DESCRIPTION	Determination FRR FY 2015-16	Determination ERR FY 2016-17	Revised Estimates ERR FY 2016-17	Petition ERR FY 2017-18	Variance Inc./Dec. FY 2017-18 over Determination ERR FY 2016-17	Rupees Million	S.No.
		%						
1	Land	397.405	4.200	-	276.550	272.350	6,484.5	1
2	Buildings	167.773	100.000	92.000	746.441	646.441	646.4	2
3	Roads, pavements and related infrastructures	-	68.000	-	150.872	82.872	121.9	3
4	Gas Transmission Pipeline	2,147.292	18,844.000	29,347.304	12,199.634	(6,644.366)	(35.3)	4
5	Compressors	1,151.924	5,000.000	8,494.436	2,701.370	(2,298.630)	(46.0)	5
6	Plant and machinery	417.145	274.000	432.000	457.630	183.630	67.0	6
7	Gas distribution system and related facilities & equipments	6,857.502	5,141.000	4,875.000	7,019.241	1,878.241	36.5	7
8	Furniture, equipment including computers & allied equipments	174.858	110.000	455.479	382.574	272.574	247.8	8
9	Computer Software (Intangible)	19.661	38.000	82.000	142.500	104.500	275.0	9
10	LPG Air Mix Projects	10.402	12.600	173.109	15.060	2.460	19.5	10
11	Telecommunication system	149.412	51.000	25.000	95.710	44.710	87.7	11
12	Appls., loose tools & equipt.	34.436	24.000	169.112	222.035	198.035	825.1	12
13	Vehicles	403.544	310.000	525.470	604.520	294.520	95.0	13
14	Construction equipment & vehicles	1,113.035	500.000	1,000.000	-	(500.000)	(100.0)	14
15	SCADA	457.705	45.000	45.000	-	(45.000)	(100.0)	15
16	TOTAL	13,502.094	30,521.800	45,715.910	25,014.137	(5,507.663)	(18.0)	16

Table # B-12.2

Sui Southern Gas Company Limited
Schedule of Fixed and Intangible Assets at Cost / WDV - For ROA

S.No.	DESCRIPTION	FY 2015-16 (with corrected balances)		FY 2016-17 Determination		FY 2016-17 Revised Determination		FY 2016-17 Revised Estimates		FY 2016-18 PETITION	
		Opening Balances	Addition Net of Deletion / Adjustments	Determination ERR FY 2016-17	FY 2016-17 Determination with corrected balances)	FY 2015-16 Motion for Review Revised Determination (with corrected balances)	FY 2016-17 Revised Determination (with corrected balances)	FY 2016-17 Revised Estimates Addition	FY 2016-17 Revised Petition Addition	FY 2017-18 Petition Addition	
1	OVERALL										
2	COST	107,711,617	13,412,837	121,124,454	111,698,423	25,661,468	137,359,911	121,124,454	45,715,910	166,840,364	
3	DEP	53,662,022	5,162,592	58,823,614	58,823,614	6,441,577	65,265,191	58,823,614	5,682,762	64,676,397	
4	WDV	54,050,595		62,300,940	52,306,781		72,196,592	62,300,940	81,520,751	31,520,751	
5	LPG Air Mix Assets									98,748,756	
7	COST	926,255	262,172	1,188,427	932,735	12,600	945,335	1,188,427	1,188,427	1,216,087	
8	DEP	271,500	55,370	326,870	326,870	55,536	382,356	55,536	67,312	382,398	
9	WDV	654,705		861,657	605,907		562,979	861,597		458,247	
10										75,340	
11	Meter Manufacturing Plant									10	
12	COST	491,233	26,755	519,988	613,549	43,350	656,873	519,988	13,409	583,318	
13	DEP	321,673	24,586	346,559	347,919	31,691	379,810	346,259	33,405	378,150	
14	WDV	169,560		173,729	265,624		277,063	173,729		401,305	
15	Assets related to LHP (Condenser)									191,549	
16	COST	54,574	9,225	50,799			51,799			15	
17	DEP	32,455	5,271	37,726			37,726				
18	WDV	22,119		20,073			20,073				
19	HEPL									18	
20	COST	1,115,844	1,115,844			1,115,844				19	
21	DEP	6,974	27,896	34,870		9,870					
22	WDV	1,08,870	1,08,974			1,08,974					
23											
24	Assets related to LPG Air Mix and Mem. Manufacturing Plant									23	
25	COST	2,587,906	2,482,058	1,546,278	1,602,208	2,682,058	762,166	2,937,988	2,882,058	3,068,276	
26	DEP	632,602	745,725	674,747	745,725	840,042	2,136,333	854,870	745,725	878,168	
27	WDV	1,955,304	2,136,333	871,531				63,303		63,303	
28								1,032,541		1,032,541	
29	Best assets related to an activity									24	
30	COST	105,123,711	118,242,936	110,152,145	135,757,703	118,242,936	63,501,072	143,847,954	119,242,936	163,772,088	
31	DEP	53,028,420	58,077,889	58,146,995	60,077,889	58,077,889	64,400,321	56,077,889	60,164,906	63,798,203	
32	WDV	52,095,291	60,164,506	52,005,251	71,256,651	60,164,506		79,447,632		54,401,321	
33	OVERALL									32	
34	Net assets at beginning	54,050,595	54,876,781							33	
35	Net assets at ending	62,300,840	72,096,692								
36	Average net fixed assets	116,351,435	124,793,474								
37	Average net fixed assets	13,175,717									
38	Assets related to LPG Air Mix and Mem.										
39	Intangible Assets										
40	Net assets at beginning	1,763,625	605,907								
41	Net assets at ending	1,942,531	562,979								
42	Average net fixed assets	3,706,196	1,668,885								
43	Average net fixed assets	1,683,078	584,443								
44											
45	Net assets at beginning	53,286,970	52,270,874								
46	Net assets at ending	60,256,299	71,593,714								
47	Average net fixed assets related to gas activity	112,645,278	123,804,588								
48	Average net fixed assets related to gas activity	56,322,699	61,902,294								
49											

Table # B-12.2

70

Sui Southern Gas Company Limited
Activity-wise Average Net Fixed Assets and Return Required

Table # B-12.3

	Average net fixed assets related to gas activity	Average Assets of Meter Manufacturing Plant	Average Assets of LPG Air Mix Projects	Assets related to LHR (Condensate)	Assets related to RLNG	Overall Average Assets	Treated Non-Gas Activity			Average Net Fixed Assets related to Gas Activity			Average net fixed assets after Deferred Credit	Return required on Net Assets
							MMP	LPG	LHR	EETPL	Total			
FY 2015-16														
Motion for Review (with corrected balances)	Opening Bal.	52,095	170	635	22	1,109	4,031	655	-	1,109	1,764	52,287		
COST		13,119	29	262	3	0	134(3)							
DEP		5,049	25	55	5	(2)	5,163							
Net addition in WDV		8,069	4	207		(28)								
FY 2015-16	Motion for Review (with corrected balances)	60,165	174	812	20	1,081	62,301	-	862	-	1,081	60,358	56,323	
Closing Bal.													5,147	
FY 2015-16														
Motion for Review (with corrected balances)	Opening Bal.	60,165	174	812	20	1,081	62,301	-	862	-	1,081	1,943	60,358	
COST		45,530	13	173	0	0	43,716							
DEP		5,720	33	67	3	(3)	5,859							
Net addition in WDV		39,809	(20)	106		(28)								
FY 2015-17	Motion for Review (with corrected balances)	99,974	153	967	17	1,053	102,164	-	967	-	1,053	2,020	100,144	
Closing Bal.													4,862	
FY 2016-17														
Revised Estimates	Opening Bal.	79,448	185	819	17	1,053	81,521	-	819	-	1,053	1,871	79,650	
COST		24,963	37	15	0	0	25,014							
DEP		7,649	30	76	3	(3)	7,786							
Net addition in WDV		17,314	6	(61)		(28)								
FY 2017-18	Motion for Review (with corrected balances)	96,762	192	758	14	1,024	98,749	-	758	-	1,024	1,782	96,967	
Closing Bal.													88,308	
FY 2017-18														
													4,499	
													83,809	
													14,248	

Table # B-12.3

Table # B-13.1

SUI SOUTHERN GAS COMPANY LIMITED
AIR MIX LPG PROJECTS

PROFIT AND LOSS ACCOUNT

S.No.	DESCRIPTION	FY 2015-16			FY 2016-17			Revised Estimates			Petition ERR			Rs Million
		FRR	ERR	FY 2015-16	FRR	ERR	FY 2016-17	FY 2016-17	FY 2017-18	FY 2017-18	S.No.	S.No.		
1	Gross Sales			27,923			53,929		59,303		77,587		1	
2	GST			4,057			7,836		8,617		11,273		2	
3	Sales net of GST			23,866			46,093		50,686		66,314		3	
4	Subsidy			376,027			359,316		432,107		623,591		4	
5	Net Sales Revenue & Subsidy			399,893			405,409		482,793		689,905		5	
6	Cost of Gas			199,492			203,359		208,093		352,436		6	
7	Gross Profit			200,401			202,050		274,700		337,469		7	
8	Operating Cost			66,761			72,393		73,437		122,832		8	
9	Depreciation			54,907			55,832		67,312		75,849		9	
10	Meter Rent			(1,171)			(1,044)		(1,478)		(1,986)		10	
11	Late Payment Surcharge			(0.961)			(0.881)		(1.216)		(1.591)		11	
12	Amortisation of deferred credit / other income			(27,332)			(32,904)		(26,994)		(26,994)		12	
13				92,204			93,396		111,061		168,110		13	
14	Profit before WPPF			108,197			108,653		163,639		169,359		14	
15	WPPF			-			5,433		7,473		7,087		15	
16	Profit Before Tax			108,197			103,220		156,166		162,272		16	

Table # B-13.2

SUI SOUTHERN GAS COMPANY LIMITED
AIR MIX LPG PROJECTS

WORKING FOR SUBSIDY

S.No.	DESCRIPTION	Rs Million			
		FRR FY 2015-16	ERR FY 2016-17	Revised Estimates ERR	Petition ERR FY 2017-18
1	Gross Sales	27.923	53.929	59.303	77.587
2	GST	4.057	7.836	8.617	11.273
3	Sales net of GST	23.866	46.093	50.686	66.314
4	Cost of Gas	199.492	203.359	208.093	352.436
5	Gross Profit	(175.626)	(157.266)	(157.407)	(286.122)
6	Operating Cost	66.761	72.393	73.437	122.832
7	Depreciation	54.907	55.832	67.312	75.849
8	Meter Rent	(1.171)	(1.044)	(1.478)	(1.986)
9	Late Payment Surcharge	(0.961)	(0.881)	(1.216)	(1.591)
10	Amortisation of deferred credit / other income	(27.332)	(32.904)	(26.994)	(26.994)
11	Total Operating Cost	92.204	93.396	111.061	168.110
12	Shortfall in Revenue	(267.830)	(250.662)	(268.468)	(454.232)
13					13
14	<u>Revenue Requirement</u>				14
15	Annual Natural Gas Sales Volume-mmbtu	383,979	390,315	371,521	368,017
16	Shortfall-LPG Normal Operations	267.830	250.662	268.468	454.232
17	17% Return on Assets	108.197	103.220	155.457	160.891
18	WPPF	-	5.433	8.182	8.468
19	Total Shortfall	376.027	359.316	432.107	623.591
20	Price Increase per MM/BTU	0.98	0.92	1.16	1.69
21					21

Sui Southern Gas Company Limited

Schedule of LPG Air Mix Fixed Assets at Cost / WDV

Table # B-13.3

Rs Million

	FY 2015-16 Motion for Review on DFRR (with corrected balances)			Decision ERR FY 2016-17			Revised Decision ERR FY 2016-17			Revised Estimates ERR FY 2016-17			Petition ERR FY 2017-18			
	Assets as beginning	FY 2015-16 Motion for Review on WDR		Opening Balance as on (31-07-2016)	Addition	Closing Balance as on (31-07-2017)	FY 2015-16 Motion for Review on WDR	Addition	Revised Closing Balance as on (30-06-2017)	Opening Balance as on (31-07-2016)	Addition	Closing Balance as on (30-06-2017)	Revised Closing Balance as on (30-06-2017)	Addition	Closing Balance as on (30-06-2016)	
COST	130,942	9,808	140,750	157,712	2,850	160,562	140,750	2,850	143,600	140,750	6,550	147,300	143,600	8,940	152,540	
DEP	64,414	6,689	71,103	74,016	9,488	83,504	71,103	9,488	80,591	71,103	6,357	77,460	80,591	7,997	87,999	
WDV	66,528		69,647	83,696		77,057	69,647						63,008	69,647		64,551
Average WDV	68,087			80,377					66,327				69,743			63,780
Deferred credit	-															*
Net Average Fixed Assets	68,087			80,377				66,327				69,743			63,780	
SURAB																
COST	244,150	10,134	254,284	244,900	3,250	248,150	254,284	3,250	257,534	254,284	0,250	254,534	257,534	4,040	261,574	
DEP	58,630	15,421	74,051	72,118	14,054	86,172	74,051	14,054	88,105	74,051	14,495	88,546	88,105	14,561	102,666	
WDV	185,520		180,233	172,782		161,978	180,233		169,429	180,233		165,988	169,429		158,908	
Average WDV	182,877			167,380					174,831				173,111			164,169
Deferred credit	-															
Net Average Fixed Assets	182,877			167,380				174,831				173,111			164,169	
NOSH																
COST	255,758	241,535	497,293	256,508	3,250	259,758	497,293	3,250	500,543	497,293	2,539	499,832	500,543	1,040	501,583	
DEP	69,857	16,183	86,040	84,792	15,192	99,983	86,040	15,192	101,231	86,040	27,282	113,321	101,231	27,821	129,052	
WDV	185,901		411,253	171,716		159,775	411,253		399,312	411,253		386,511	399,312		372,531	
Average WDV	298,577			165,746					405,283				398,882			385,921
Deferred credit	-															
Net Average Fixed Assets	298,577			165,746				405,283				398,882			385,921	
KOT																
COST	295,406	0,695	296,101	296,156	3,250	299,406	296,101	3,250	299,351	296,101	3,250	299,351	299,351	1,040	300,391	
DEP	78,600	17,079	95,679	95,556	17,097	112,653	95,679	17,097	112,776	95,679	17,146	112,825	112,776	17,939	130,716	
WDV	216,806		200,422	200,600		186,753	200,422		186,575	200,422		186,526	186,575		169,675	
Average WDV	208,614			193,676					193,498				193,474			178,125
Deferred credit	-															
Net Average Fixed Assets	208,614			193,676				193,498				193,474			178,125	
GAWADAR																
COST	926,256	262,172	1,188,428	955,276	12,600	967,876	1,188,428	12,600	1,201,028	1,188,428	173,109	1,361,537	1,361,548	15,060	1,376,608	
DEP	271,501	55,371	326,872	326,481	55,832	382,313	326,872	55,832	382,704	326,872	67,312	394,184	384,736	75,849	460,586	
WDV	654,735		861,556	628,795		585,563	861,556		818,324	861,556		967,352	976,811		916,022	
Average WDV	758,155			607,179					839,940				914,454			946,417
Deferred credit	-															
Net Average Fixed Assets	758,155			607,179				839,940				914,454			946,417	
NET TOTALS																
Shortfall-LPG Normal Operations																
GAWADAR																
SURAB																
NOSH																
KOT GHULAM																
NEW PROJECTS																
Total LPG Normal Operations	268,543			250,663				250,663				268,468			456,232	

75

C

SUI SOUTHERN GAS COMPANY LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
For FY 2017-18
SECTION - C

Tariff Working, Financial Statements & Other Schedules
(As per OGRA Prescribed Formats)

DESCRIPTION	Table #
Tariff calculation sheet	C-1
Profit & loss account	C-2
Balance sheet	C-3
Late Payment Surcharge	C-4
Category-wise sales, prescribed price and GDS - existing	C-5
Statement of gas sales category-wise monthly and biannually	C-6
Weighted average cost of gas of both companies	C-7
Statement of gas purchases field-wise monthly and biannually - SSGCL	C-8.1
Statement of gas purchases field-wise monthly and biannually - SNGPL	C-8.2
Comparative Statement of UFG in Transmission & Distribution Systems	C-9

Table # C-1

**SUI SOUTHERN GAS COMPANY LIMITED
TARIFF CALCULATION SHEET
FOR THE FINANCIAL YEAR 2017-18**

Particulars	Petition ERR FY 2017-18
1 Gas Sales	
1A	MMCF
1B	BBTU
1C	Average Calorific Value per MMCF
	Rupees in million
2 Net Operating Revenues	
Sales at current Prescribed Price	113,499.912
RLNG Transportation Income	4,643.207
Income from Sale of LPG	3,008.644
Meter rentals	772.565
Amortization of deferred credit	426.348
Sale of Gas Condensate (NGL)	717.718
Late payment Surcharge	2,957.521
Meter manufacturing plant profit/ (loss)	208.730
Other income	531.944
2A Total Income	126,766.589
Less: Operating Expenses	
Cost of gas	130,140.367
Adjustment in cost of gas for UFG above allowable limit	(2,574.510)
Transmission and distribution cost	17,072.994
Gas Internally Consumed	366.481
Depreciation	7,120.400
Worker's Profit Participation Fund	54.101
Other charges excluding WPPF	1,878.376
2B Total Expenses	154,058.208
2C Return available (2A - 2B)	(27,291.619)
3 Required Return on Net Fixed Assets	
Net Operating Fixed Assets at Beginning	75,116.581
Net Operating Fixed Assets at End	92,501.186
3A	167,617.767
3B Average Net Operating Fixed Assets (3A / 2)	83,808.883
3C Required Return on Net Assets - In Percentage	17%
3D Required Return (3B x 3C)	14,247.510
4 Shortfall / (Surplus) in Gas Operation [3D-2C]	41,539.129
5 Prescribed Prices for Gas Operation	Rupees Per MMBTU
	112.87
6 Subsidy for LPG Air Mix Projects over & above Gas Operation	623.591
7 Shortfall / (Surplus) in Revenue Requirement	42,162.720
	Rupees per MMBTU (w.e.f. 1 July 2017)
	114.57

Table # C-2

**SUI SOUTHERN GAS COMPANY LIMITED
PROFIT AND LOSS ACCOUNT**

Description	Determination FRR FY 2015-16	Determination ERR FY 2016-17	Revised Estimates ERR FY 2016-17	Petition ERR FY 2017-18
Sales				
MMCF	384,988	398,489	375,276	371,774
BBTU	383,979	390,315	371,521	368,017
<i>Rupees Million</i>				
Return required on net assets				
Net assets at the beginning	45,823	47,330	55,324	75,117
Net assets at the end	53,824	67,001	95,453	92,501
Average net operating fixed assets	49,824	57,166	75,389	83,809
Required return @ 17%	8,470	9,718	12,816	14,248
Gas sales net of sales tax	183,403	200,794	177,027	166,198
Less: Gas Development Surcharge after adjustments	17,628	37,529	47,936	53,322
Tariff Adjustment Required	(27,508)	(23,876)	(9,554)	42,163
Net gas sales	138,267	139,389	119,536	155,039
Other Revenue				
Transportation income	-	68	-	-
RLNG Transportation Income	456	3,697	3,697	4,643
Income from Sale of LPG	2,854	2,728	3,053	3,009
Meter rentals	719	750	744	773
Recognition of income against deferred credit	406	407	411	426
Sales of gas condensate (NGL)	749	1,414	847	718
Late payment surcharge	2,198	1,151	3,321	2,958
Meter manufacturing plant profit	15	641	182	209
Air Mix LPG projects profit	108	103	156	162
Other income	3,128	3,231	2,689	2,685
	10,632	14,190	15,101	15,582
Revenues	148,899	153,579	134,637	170,621
Expenses				
Cost of gas	151,088	133,285	117,815	130,140
Transmission and distribution costs	13,686	15,509	15,652	17,439
Depreciation	5,096	5,708	5,294	7,120
Other charges excluding (W.P.P.F.)	2,025	733	1,933	1,958
Workers Profit Participation Fund (W.P.P.F.)	-	296	-	54
	171,895	155,530	140,695	156,713
Operating Profits	(22,996)	(1,951)	(6,058)	13,908
Less : Borrowing cost	10,288	14,467	9,356	12,718
Profit before tax	(33,284)	(16,418)	(15,414)	1,190

Table # C-3

78

SUI SOUTHERN GAS COMPANY LIMITED
BALANCE SHEET

Description	Determination FRR FY 2015-16	Determination ERR FY 2016-17	Revised Estimates ERR FY 2016-17	Petition ERR FY 2017-18
Equity				
Issued share capital	8,809	8,809	8,809	8,809
Reserves / Surplus on revaluation of investment	5,109	5,175	5,148	5,148
Surplus on revaluation of fixed assets	11,728	10,252	11,728	11,728
Un-appropriated Profit	(27,301)	(15,938)	(21,245)	(20,412)
	(1,654)	8,298	4,441	5,274
Long Term Debts				
Local Loans / Redeemable Capital	23,596	84,099	64,408	77,509
Long term deposits (security deposits)	19,186	18,240	19,748	21,604
	42,782	102,339	84,156	99,113
Deferred credits	8,208	4,533	4,691	4,466
Deferred tax liabilities	-	(885)	-	-
Obligation against pipeline	1,028	-	983	933
Current liabilities				
Local Loans / Redeemable Capital	5,756	5,278	7,044	10,950
<i>Short term borrowing</i>	4,860	-	7,860	-
<i>Creditors, accrued & others</i>	231,781	227,450	213,307	221,671
	242,398	232,728	228,211	232,621
Total Equity and Liabilities	292,761	347,012	322,482	342,407
Fixed assets				
At cost	131,447	193,903	179,026	204,223
Less: Accumulated depreciation	57,326	65,401	64,719	72,504
	74,121	128,502	114,307	131,719
Work in progress	23,521	9,045	15,832	14,264
	97,642	137,548	130,139	145,983
Long term deposits, advances, investments and receivables	14,634	15,161	22,120	21,772
Deferred tax	3,743	6,737	6,491	6,491
Net investment in finance lease	362	307	157	51
Other Assets				
Stores and spares	3,133	3,179	3,697	4,594
	3,133	3,179	3,697	4,594
Current Assets				
Cash	954	987	935	944
Book debts	86,608	125,894	82,725	82,747
Current maturity of net investment in finance lease	110	119	150	106
Other receivables	85,574	57,080	76,067	79,718
	195,119	209,465	192,343	196,424
Total assets	292,761	347,012	322,482	342,407

Note:- ★ Represents revaluation of land.

Table # C-4

**SUI SOUTHERN GAS COMPANY LIMITED
LATE PAYMENT SURCHARGE**

DESCRIPTION	Determination FRR FY 2015-16	Determination ERR FY 2016-17	Revised Estimates ERR FY 2016-17	Petition ERR FY 2017-18	Variance Inc./Dec.) Petition FY 2017-18 over Determination ERR FY 2016-17	%
Domestic Consumers	713.964	794.026	740.978	770.694	(23.332)	(2.9)
Commercial Consumers	78.423	110.064	79.640	80.945	(29.120)	(26.5)
General Industrial Consumers	142.994	246.652	144.090	145.357	(101.295)	(41.1)
<u>Major outstanding</u>						
DHA COGEN	344.820	-	194.911	194.911	194.911	100.0
IPP Vs CPP Litigation Cases	364.681	-	123.045	123.045	123.045	100.0
Others Gen.Ind. Litigation Cases	45.544	-	10.803	10.803	10.803	100.0
HABIBULLAH COASTAL	507.278	-	2,027.247	1,631.767	1,631.767	100.0
Total	2,197.704	1,150.742	3,320.712	2,957.521	1,806.779	157.0

Table # C-5

Table # C-5

SUI SOUTHERN GAS COMPANY LIMITED
Category-wise Sales, Prescribed value and GDS
FOR THE FINANCIAL YEAR 2017-18

Table # C-6

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES
PETITION FOR FY 2017-18

	July/17				August/17				September/17					
	MMCFD	MMCF	MMBTU	Sales Rs Million	GDS Rs Million	MMCFD	MMCF	MMBTU	Sales Rs Million	GDS Rs Million	MMCFD	MMCF	MMMBTU	Sales Rs Million
KARACHI (UNIT - A)														
POWER - KESC	114.0	3,533	3,503	1,401.174	208.355	96.1	2,980	2,955	1,181.818	175.736	120.7	3,622	3,591	1,436.398
CEMENT	0.8	26	26	19.258	5,952	0.4	12	12	8,888	2,747	0.9	28	28	20.740
FERTILIZER - Feedstock	55.4	1,717	1,738	213.809	(0.713)	50.5	1,565	1,584	194,882	(0.650)	51.2	1,537	1,556	191,395
FERTILIZER - Power	13.0	402	407	244.190	105.604	13.1	407	412	247.228	106.918	12.8	385	390	233,864
PAK STEEL	8.5	262.	259	155.368	67.192	3.3	101	100	59,894	25.902	1.7	51	50	30,243
CNG STATIONS	43.5	1,350	1,330	930.760	321.897	45.4	1,407	1,386	970.126	355.511	45.5	1,366	1,346	941,886
CAPTIVE POWER	132.0	4,091	4,079	2,447.640	816,492	133.4	4,136	4,124	2,474,244	825,366	125.6	3,767	3,756	2,253,782
NOORIABAD INDUSTRIAL	20.0	620	615	368.797	159,493	20.0	620	615	368,797	159,493	20.0	600	595	356,901
GENERAL INDUSTRIES	127.4	3,949	3,915	2,349,020	1,015,873	152.1	4,714	4,673	2,803,799	1,212,550	133.4	4,002	3,968	2,380,527
COMMERCIAL	18.1	560	552	386.150	141.127	22.4	694	684	478,911	175,028	21.3	638	629	440,230
DOMESTIC	133.4	4,136	4,078	914,129	278,141	132.4	4,104	4,046	880,584	267,195	140.2	4,205	4,146	894,841
Sub-Total	666.0	20,647	20,501	9,430,296	3,119,411	669.0	20,740	20,590	9,669,171	3,285,796	673.4	20,202	20,054.	9,180,806
SINDH (UNIT - B)														
POWER	136.8	4,242	4,186	1,674,246	248,960	126.7	3,927	3,875	1,549,921	230,473	134.8	4,045	3,991	1,596,494
CEMENT	0.3	8	8	5,923	1,831	0.1	2	2	1,481	0,458	0.0	1	1	0,740
CNG STATIONS	30.9	958	952	666,482	230,498	30.2	937	931	651,789	225,416	32.9	988	982	687,668
CAPTIVE POWER	63.6	1,971	1,944	1,166,166	389,014	59.5	1,845	1,819	1,091,582	364,120	52.9	1,587	1,564	938,478
GENERAL INDUSTRIES	9.0	280	281	168,508	72,874	12.3	380	382	228,938	99,008	11.7	352	354	212,236
COMMERCIAL	3.7	114	113	78,994	28,870	4.5	141	139	97,324	35,569	4.5	134	133	92,796
DOMESTIC	54.5	1,688	1,667	351,351	102,587	59.8	1,853	1,831	393,238	118,524	59.6	1,788	1,766	362,747
Sub-Total	298.7	9,261	9,150	4,111,671	1,074,634	293.0	9,084	8,978	4,014,233	1,073,569	296.5	8,895	8,791	3,891,160
QUEITTA (ONGDP)														
POWER - WAPDA	8.5	265	258	103,299	15,361	8.7	271	264	105,638	15,708	8.6	259	252	100,960
POWER - COASTAL (IPP)	20.8	644	625	249,952	37,168	21.7	672	652	260,819	38,784	19.7	591	573	229,381
CNG STATIONS	3.9	121	117	81,662	28,242	3.9	121	117	81,630	28,231	3.6	108	104	72,834
CAPTIVE POWER	0.0	1	1	0.578	0.193	0.0	1	1	0.578	0.193	0.0	1	1	0,578
GENERAL INDUSTRIES	0.5	16	16	9,471	4,096	0.8	24	23	14,018	6,052	0.7	22	21	12,400
COMMERCIAL	1.8	55	52	36,747	13,430	2.6	80	77	54,118	19,778	2.6	78	75	52,308
DOMESTIC	20.0	619	591	149,229	45,763	16.1	500	478	122,080	35,753	15.3	458	438	111,170
Sub-Total	55.5	1,721	1,660	630,939	144,253	53.9	1,670	1,613	638,880	144,510	50.5	1,516	1,464	579,631
Total	1,020.3	31,628	31,312	14,172,906	4,338,298	1,015.9	31,494	31,181	14,322,284	4,503,876	1,020.4	30,613	30,309	13,651,597

Table # C-6
Page 1 of 5

Table # C-6

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES
PETITION FOR FY 2017-18

	October/17				November/17				December/17							
	MMCFD	MMCF	MMMBTU	Sales Rs Million	GDS Rs Million	MMCFD	MMCF	MMMBTU	Sales Rs Million	GDS Rs Million	MMCFD	MMCF	MMMBTU	Sales Rs Million	GDS Rs Million	
KARACHI (UNIT - A)																
POWER - KESC	90.3	2,800	2,776	1,110,478	165,128	87.8	2,633	2,610	1,044,000	155,243	98.9	3,067	3,040	1,216,135	180,839	
CEMENT	0.4	11	11	8,148	2,518	0.3	8	8	5,926	1,1,831	0.6	20	20	14,814	4,579	
FERTILIZER - Feedstock	57.8	1,791	1,813	223,024	(0.743)	50.5	1,514	1,533	188,531	(0.628)	45.4	1,408	1,425	175,331	(0.584)	
FERTILIZER - Power	12.4	384	389	238,257	100,876	12.4	373	378	226,575	97,986	12.6	390	395	236,901	102,452	
PAK STEEL	1.7	52	51	30,836	13,336	3.0	89	88	52,778	22,825	2.9	90	89	55,371	23,081	
CNG STATIONS	42.2	1,309	1,290	902,679	312,185	45.4	1,361	1,340	938,329	324,514	44.6	1,382	1,362	953,129	329,633	
CAPTIVE POWER	134.7	4,177	4,165	2,498,985	833,620	196.0	4,079	4,067	2,440,233	814,028	125.4	3,886	3,875	2,324,807	775,517	
NOORIABAD INDUSTRIAL F	20.0	620	615	368,797	159,493	20.0	600	595	356,901	154,348	20.0	620	615	368,797	159,493	
GENERAL INDUSTRIES	143.5	4,448	4,410	2,646,010	1,144,311	148.1	4,444	4,406	2,643,366	1,143,168	142.1	4,405	4,367	2,620,148	1,133,127	
COMMERCIAL	21.1	653	643	450,329	164,582	21.4	641	632	442,425	161,694	21.8	677	667	467,096	170,710	
DOMESTIC	140.5	4,356	4,294	953,647	295,286	148.4	4,452	4,389	939,389	290,065	167.4	5,190	5,116	1,152,513	369,409	
Sub-Total	664.6	20,602	20,457	9,426,190	3,190,591	673.1	20,193	20,045	9,278,471	3,165,073	681.8	21,135	20,971	9,583,042	3,248,254	
SINDH (UNIT - B)																
POWER	148.4	4,599	4,538	1,815,148	269,913	116.2	3,486	3,440	1,375,866	204,591	102.8	3,188	3,146	1,258,250	187,102	
CEMENT	-	-	-	-	-	0.0	1	1	0.740	0.229	0.0	1	1	0.740	0.229	
CNG STATIONS	31.2	967	961	672,641	232,628	31.5	944	938	656,898	227,184	32.1	995	989	692,185	239,387	
CAPTIVE POWER	54.8	1,699	1,675	1,004,886	335,197	53.0	1,591	1,569	941,322	314,009	49.7	1,541	1,519	911,581	304,088	
GENERAL INDUSTRIES	11.7	362	364	218,366	94,436	13.1	393	395	237,127	102,550	13.5	418	420	251,914	108,944	
COMMERCIAL	4.4	135	134	93,519	34,179	4.2	127	126	88,134	32,211	4.7	145	144	100,556	36,750	
DOMESTIC	58.3	1,808	1,786	370,796	110,637	68.3	2,049	2,025	402,475	121,706	72.1	2,235	2,208	465,883	146,304	
Sub-Total	308.7	9,570	9,458	4,175,306	1,076,989	286.4	8,592	8,494	3,702,563	1,002,479	274.9	8,523	8,426	3,681,110	1,022,805	
QUEETTA (ONGDP)																
POWER - WAPDA	8.2	253	247	98,621	14,665	-	-	-	535	213,856	31,800	3.4	106	103	41,141	6,118
POWER - COASTAL (IPP)	14.5	449	436	174,268	25,914	18.4	551	504	72,834	25,189	3.7	114	110	76,880	26,588	
CNG STATIONS	3.5	109	105	73,508	25,422	3.6	108	104	0.193	0.193	0.0	1	1	0.578	0.193	
CAPTIVE POWER	0.0	1	1	0.578	0.193	0.0	1	1	0.578	0.193	0.0	1	1	0.578	0.193	
GENERAL INDUSTRIES	0.7	22	22	12,939	5,596	1.1	32	31	18,331	7,927	1.1	33	31	18,870	8,161	
COMMERCIAL	2.4	74	71	49,892	18,234	2.9	88	84	59,060	21,585	3.1	96	92	64,680	23,639	
DOMESTIC	18.1	562	537	144,559	44,781	29.6	887	848	252,237	85,509	42.5	1,317	1,259	427,484	151,492	
Sub-Total	47.4	1,471	1,418	554,366	134,804	55.6	1,667	1,603	616,897	172,203	53.8	1,667	1,597	629,634	216,191	
Total	1,020.7	31,642	31,333	141,55,862	4,402,385	1,015.1	30,453	30,142	13,597,931	4,339,755	1,010.5	31,325	30,994	13,893,786	4,487,250	

Table # C-6
Page 2 of 5

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES
PETITION FOR FY 2017-18

	January/18			February/18			March/18		
	MMCFD	MMCF	MMMBTU	Sales Rs Million	GDS Rs Million	Sales Rs Million	GDS Rs Million	MMCFD	MMCF
KARACHI (UNIT - A)									
POWER - KESC	138.2	4,283	4,247	1,698,600	252,582	63.2	1,770	1,755	701,965
CEMENT	0.5	14	14	10,370	3,205	0.7	19	19	14,303
FERTILIZER - Feedstock	8.2	233	256	-	31,505	(0,105)	56.8	1,590	1,610
FERTILIZER - Power	6.1	188	190	114,199	49,387	13.2	370	374	224,627
PAK STEEL	2.9	89	88	-	52,778	22,825	2.8	77	76
CNG STATIONS	46.5	1,443	1,421	994,829	344,054	51.1	1,431	1,409	986,276
CAPTIVE POWER	123.8	3,839	3,828	2,296,656	766,126	135.6	3,796	3,785	2,270,925
NOORIABAD INDUSTRIAL E	20.0	620	615	368,197	159,493	20.0	560	555	333,107
GENERAL INDUSTRIES	141.9	4,399	4,361	2,616,575	1,131,582	151.6	4,244	4,207	2,524,216
COMMERCIAL	22.3	690	681	476,473	174,137	23.3	652	643	449,161
DOMESTIC	180.0	5,581	5,502	1,293,153	421,012	180.1	5,044	4,973	1,127,113
Sub-Total	690.3	21,399	21,202	9,953,935	3,324,298	698.3	19,552	19,406	8,876,118
SINDH (UNIT - B)									
POWER	101.3	3,141	3,099	1,239,700	184,343	64.7	1,810	1,786	714,513
CEMENT	-	-	-	-	-	0.0	1	1	0,715
CNG STATIONS	31.7	981	976	682,851	236,159	37.6	1,054	1,048	733,485
CAPTIVE POWER	47.4	1,470	1,449	869,616	290,090	55.1	1,544	1,522	913,232
GENERAL INDUSTRIES	12.3	380	382	229,332	99,178	11.9	333	334	200,620
COMMERCIAL	4.5	141	139	97,554	35,653	4.9	136	135	94,419
DOMESTIC	86.3	2,676	2,643	580,718	187,249	89.1	2,495	2,465	548,271
Sub-Total	283.5	8,789	8,689	3,699,771	1,032,673	263.3	7,374	7,291	3,205,255
QUEETTA (ONGDP)									
POWER - WAPDA	0.4	13	13	5,046	0,750	1.8	49	48	19,112
POWER - COASTAL (IPP)	3.3	103	99	69,462	24,023	3.4	95	91	63,811
CNG STATIONS	-	-	-	-	0.0	1	1	0,558	-
CAPTIVE POWER	0.9	29	28	16,713	7,228	1.0	27	26	15,599
GENERAL INDUSTRIES	3.2	99	95	66,412	24,272	3.3	93	89	62,476
COMMERCIAL	48.7	1,510	1,443	505,326	180,626	55.3	1,548	1,480	465,560
DOMESTIC	56.6	1,753	1,678	662,939	236,598	64.7	1,813	1,735	631,117
Sub-Total	1,030.4	31,942	31,568	14,316,665	4,593,869	1,026.4	28,739	28,432	12,712,489
Total									

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES
PETITION FOR FY 2017-18

	April/18			May/18			June/18			
	MMCFD	MMCF	MMMBTU	Sales Rs Million	GDS Rs Million	MMCFD	MMCF	MMBTU	Sales Rs Million	GDS Rs Million
KARACHI (UNIT - A)										
POWER - KESC	87.7	2,632	2,609	1,043,543	155,175	136.6	4,236	4,199	1,679,697	249,771
CEMENT	0.3	8	8	5,926	1,831	0.5	16	16	11,851	3,663
FERTILIZER - Feedstock	63.0	1,889	1,912	235,228	(0.784)	58.5	1,813	1,835	225,764	(0.753)
FERTILIZER - Power	12.8	383	388	232,649	100,613	12.6	390	395	236,901	102,452
PAK STEEL	2.3	68	67	40,325	17,439	2.0	63	62	37,360	16,157
CNG STATIONS	48.3	1,448	1,427	998,606	345,361	44.4	1,375	1,354	947,941	327,839
CAPTIVE POWER	142.9	4,288	4,276	2,565,604	855,843	138.2	4,284	4,272	2,562,911	854,944
NOORIABAD INDUSTRIAL F	20.0	600	595	356,901	154,348	20.0	620	615	368,797	159,493
GENERAL INDUSTRIES	146.7	4,402	4,364	2,618,581	1,132,449	144.0	4,463	4,425	2,654,932	1,148,169
COMMERCIAL	22.3	669	659	461,626	168,711	22.2	690	680	475,900	173,928
DOMESTIC	154.8	4,644	4,578	1,014,066	318,640	143.3	4,443	4,380	997,838	310,474
Sub-Total	701.0	21,031	20,883	9,573,055	3,249,626	722.3	22,392	22,233	10,199,891	3,346,137
SINDH (UNIT - B)										
POWER	84.6	2,538	2,504	1,001,706	148,954	78.5	2,433	2,401	960,264	142,791
CEMENT	0.0	1	1	0.740	0.229	-	-	-	-	-
CNG STATIONS	36.5	1,094	1,087	761,034	263,198	31.3	972	966	676,242	233,874
CAPTIVE POWER	55.9	1,678	1,654	992,521	331,088	55.7	1,727	1,703	1,021,810	340,859
GENERAL INDUSTRIES	12.3	369	371	222,545	96,243	12.2	379	381	228,543	98,837
COMMERCIAL	4.7	142	141	98,617	36,042	5.0	154	152	106,630	38,970
DOMESTIC	65.6	1,968	1,944	389,291	116,172	60.7	1,882	1,859	365,319	105,533
Sub-Total	259.7	7,790	7,702	3,466,454	991,926	243.5	7,547	7,462	3,338,809	960,864
QUEETTA (QNGDGP)										
POWER - WAPDA	8.3	249	243	97,062	14,433	7.8	242	236	94,333	14,027
POWER - COASTAL (IPP)	13.5	406	394	157,578	23,432	18.3	568	551	220,455	32,782
CNG STATIONS	3.1	92	89	62,043	21,457	3.3	101	97	68,113	23,556
CAPTIVE POWER	0.0	1	1	0.578	0.193	0.0	1	1	0.578	0.193
GENERAL INDUSTRIES	0.8	24	23	13,832	5,982	0.9	27	26	15,561	6,730
COMMERCIAL	3.0	89	85	59,658	21,803	3.0	94	90	63,313	23,139
DOMESTIC	27.4	822	785	208,844	68,834	13.5	420	401	107,350	30,601
Sub-Total	56.1	1,682	1,620	599,596	156,134	46.9	1,453	1,403	569,703	131,028
Total	1,016.8	30,503	30,206	13,639,104	4,397,686	1,012.7	31,393	31,098	14,128,403	4,438,028

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES
PETITION FOR FY 2017-18

	July - December 2017			January - June 2018			TOTAL			
	MMCFD	MMCF	MMMBTU	Sales Rs Million	GDS Rs Million	MMCFD	MMCF	MMMBTU	Sales Rs Million	GDS Rs Million
KARACHI (UNIT - A)										
POWER - KESC	101.3	18,635	18,475	7,390,003	1,098,893	114.0	20,635	20,457	8,182,989	1,216,810
CEMENT	0.6	105	104	77,774	24,037	0.5	94	93	69,856	21,590
FERTILIZER - Feedstock	51.8	9,532	9,650	1,186,972	(3,957)	50.5	9,140	9,254	1,138,184	(3,794)
FERTILIZER - Power	12.7	2,341	2,370	1,422,014	614,974	11.7	2,117	2,143	1,245,822	556,075
PAK STEEL	3.5	645	637	382,490	165,414	2.4	432	427	256,323	110,851
CNG STATIONS	44.4	8,176	8,053	5,636,907	1,949,484	46.0	8,333	8,207	5,745,162	1,986,923
CAPTIVE POWER	131.2	24,136	24,066	14,439,712	4,816,847	136.2	24,655	24,584	14,750,381	4,920,481
NOORIABAD INDUSTRIAL	20.0	3,680	3,648	2,188,991	946,666	20.0	3,620	3,589	2,153,301	931,231
GENERAL INDUSTRIES	141.1	25,962	25,738	15,442,871	6,678,527	145.2	26,285	26,059	15,635,145	6,761,679
COMMERCIAL	21.0	3,862	3,807	2,665,140	974,033	21.5	3,883	3,828	2,679,678	979,346
DOMESTIC	143.7	26,444	26,069	5,735,103	1,771,827	161.3	29,187	28,773	5,593,664	2,092,861
Sub-Total	671.3	123,518	122,618	56,567,977	19,036,746	709.3	128,382	127,415	58,490,505	19,575,054
SINDH (UNIT - B)										
POWER	127.6	23,487	23,175	9,269,926	1,378,438	81.3	14,709	14,514	5,805,532	863,283
CEMENT	0.1	13	13	9,625	2,975	0.0	4	4	2,936	0,907
CNG STATIONS	31.5	5,788	5,754	4,027,664	1,392,939	33.1	5,992	5,957	4,169,820	1,442,103
CAPTIVE POWER	55.6	10,234	10,090	6,053,926	2,019,489	53.8	9,733	9,595	5,757,068	1,926,462
GENERAL INDUSTRIES	11.9	2,185	2,195	1,317,088	569,597	12.0	2,165	2,175	1,304,946	564,346
COMMERCIAL	4.3	796	788	551,323	201,493	4.6	841	832	582,204	212,779
DOMESTIC	62.1	11,422	11,283	2,346,490	706,569	71.9	13,006	12,847	2,675,188	821,881
Sub-Total	293.1	53,925	53,297	23,576,043	6,271,499	256.6	46,449	45,924	20,297,695	5,825,760
QUETTA (ONGDP)										
POWER - WAPDA	5.7	1,048	1,021	408,518	60,747	4.8	867	845	337,963	50,255
POWER - COASTAL (IPP)	16.4	3,013	2,924	1,169,418	173,892	10.4	1,883	1,827	730,931	108,690
CNG STATIONS	3.7	681	656	459,347	158,862	3.2	576	555	388,454	134,344
CAPTIVE POWER	0.0	6	6	3,470	1,158	0.0	4	4	2,293	0,765
GENERAL INDUSTRIES	0.8	149	143	86,029	37,205	0.9	156	150	89,846	38,855
COMMERCIAL	2.6	471	453	316,806	115,783	2.9	533	512	358,456	131,005
DOMESTIC	23.6	4,344	4,153	1,206,759	395,066	31.9	5,769	5,515	1,707,687	582,599
Sub-Total	52.8	9,712	9,355	3,650,347	942,712	54.1	9,788	9,408	3,615,630	1,046,514
Total	1,017.1	187,155	185,271	83,794,367	26,250,957	1,020.0	184,618	182,746	82,403,830	26,447,327

SUI SOUTHERN GAS COMPANY LIMITED

BASIS / ASSUMPTIONS

For FY 2017-18

Table # C-7

(i) Actual average FOB rates of oil prices during January 2017, i.e. HSFO \$ 319.14 and Curde oil \$ 53.72 respectively have been used for whole year without any escalation.

(ii) Exchange rates have been considered based on the projected numbers available from State Bank of Pakistan's website on 20 February 2017. Based on the available trend average exchange rates for first half (July - December 2017) and second half (January - June 2018), thus works out to Rs 107 and 108 per US\$ respectively.

	PETITION		Averages
	<u>Jul. - Dec.17</u>	<u>Jan. - Jun.18</u>	
Exchange Parity Rs per US\$	107.0000	108.0000	107.5000
<u>Crude oil US\$ per Barrel</u>			
Average FOB Prices	53.7170	53.7170	53.7170
Frieght	0.7074	0.7074	0.7074
Average C&F Prices	54.4244	54.4244	54.4244
 MMBTU/BBL	 5.6173	 5.6173	
 <u>HSFO US\$ per M.Ton.</u>	 	 	
Average FOB Prices	319.1400	319.1400	319.1400
Frieght	5.2471	5.2471	5.2471
Average C&F Prices	324.3871	324.3871	324.3871
 MMBTU per M.Ton.	 40.7920	 40.7920	
 Weighted average cost of gas	 . .	 300.76	

SUI SOUTHERN GAS COMPANY LIMITED
WEIGHTED AVERAGE COST OF GAS
FIELD WISE GAS PURCHASES
For FY 2017-18

Table # C-8

	SNGPL				SSGCL			TOTAL				
	MMCF	MMMBTU	Rs per MMBTU	Rs Million	MMCF	MMMBTU	Rs per MMBTU	Rs Million	MMCF	MMMBTU	Rs per MMBTU	Rs Million
Sui	76,285	73,502	160.72	11,813	38,842	37,425	160.72	6,015	115,127	110,927	160.72	17,828
Kandikot	18,250	15,369	160.72	2,470	558	470	160.72	75	18,808	15,838	160.72	2,546
Hassan	694	488	261.17	127	-	-	-	-	694	488	261.17	127
Hasan (SNGPL)-Rustum/SherAliJatoi					146	109	600.00	65	146	109	600.00	65
Ghotki Town - SNGPL					871	766	600.00	460	871	766	600.00	460
Ubaro Town - SNGPL					686	594	600.00	356	686	594	600.00	356
Mari					291	212	90.71	19	291	212	90.71	19
Sari / Hund					365	334	479.56	160	365	334	479.56	160
Maher / Mubarak Block					4,385	4,787	266.11	1,274	4,385	4,787	266.11	1,274
Pasaki Deep & Kunnar Deep					63,240	66,749	266.37	17,780	63,240	66,749	266.37	17,780
Choudhiko - SNGPL					150	151	600.00	90	150	151	600.00	90
Adam X-1 / Hala					5,840	6,113	284.18	1,737	5,840	6,113	284.18	1,737
Pakhtro / Noorai Jagir					730	809	246.46	199	730	809	246.46	199
Zargoon					5,840	5,537	363.57	2,013	5,840	5,537	363.57	2,013
Bobi					822	913	338.34	309	822	913	338.34	309
Latif	2,008	2,007	281.52	565	6,571	6,568	281.47	1,849	8,579	8,575	281.48	2,414
Kirther (Rehman)-EWT					7,300	6,088	518.38	3,156	7,300	6,088	518.38	3,156
Badin Block					7,120	7,655	270.50	2,071	7,120	7,655	270.50	2,071
Kadanwari					5,145	5,114	811.71	4,151	5,145	5,114	811.71	4,151
Miano					22,086	21,947	331.74	7,281	22,086	21,947	331.74	7,281
Sawan	25,550	25,546	331.78	8,476	10,194	10,192	331.72	3,381	35,744	35,738	331.76	11,857
Zamzama	26,645	21,336	322.37	6,878	11,506	9,214	321.96	2,966	38,151	30,550	322.25	9,845
Bhit					59,270	56,336	356.29	20,072	59,270	56,336	356.29	20,072
Mazarani					1,095	1,112	188.12	209	1,095	1,112	188.12	209
Khipro Block					108,580	107,779	419.29	45,191	108,580	107,779	419.29	45,191
Mirkurkhas Block					34,675	35,330	402.05	14,204	34,675	35,330	402.05	14,204
Sujawal / Sujjal					8,395	8,804	324.48	2,857	8,395	8,804	324.48	2,857
Nur Bagla fields					730	793	266.32	211	730	793	266.32	211
Jakhro / Dachrapur					1,825	1,776	266.32	473	1,825	1,776	266.32	473
Gambat Block - Wafiq/Shahdad (XI)					14,600	15,932	266.32	4,243	14,600	15,932	266.32	4,243
Sinjhoro					10,585	10,700	266.32	2,850	10,585	10,700	266.32	2,850
Ayesha					3,620	3,620	267.57	969	3,620	3,620	267.57	969
Dhodak	3,614	4,075	316.23	1,289					3,614	4,075	316.23	1,289
Dakhni	10,585	11,216	158.27	1,775					10,585	11,216	158.27	1,775
Pirkoh / Loti	4,599	3,925	148.71	584					4,599	3,925	148.71	584
Sackal	365	424	493.67	209					365	424	493.67	209
QADIRPUR (PROCESSED)	72,270	63,660	313.93	19,985					72,270	63,660	313.93	19,985
QADIRPUR (FOR LIBERTY)	16,425	13,876	286.06	3,969					16,425	13,876	286.06	3,969
QADIRPUR (PERMEATE)	18,250	12,382	282.54	3,498					18,250	12,382	282.54	3,498
Adhi	24,090	26,201	158.27	4,147					24,090	26,201	158.27	4,147
Ratna	2,409	2,629	422.61	1,111					2,409	2,629	422.61	1,111
Bhangali	402	427	222.35	95					402	427	222.35	95
Bela / Meyal / Domial Dhullian	438	462	139.14	64					438	462	139.14	64
Bela	767	865	139.14	120					767	865	139.14	120
Dhullan	730	780	139.14	108					730	780	139.14	108
Pindori	37	41	353.56	15					37	41	353.56	15
Paciwal	949	1,012	353.56	358					949	1,012	353.56	358
Chanda	986	1,114	291.38	325					986	1,114	291.38	325
Badar	4,636	2,676	252.28	675					4,636	2,676	252.28	675
GURGURI / MAKORI	23,725	25,262	291.38	7,361					23,725	25,262	291.38	7,361
Menzalai / Mamikhel / Maramzai	16,425	17,224	291.38	5,019					16,425	17,224	291.38	5,019
Radio / Salsabil	4,782	4,460	302.37	1,349					4,782	4,460	302.37	1,349
CHACHAR	365	289	223.11	65					365	289	223.11	65
TAJIAL	511	511	291.38	149					511	511	291.38	149
MELA	2,847	3,308	283.85	939					2,847	3,308	283.85	939
NASHPA	40,880	47,753	283.85	13,555					40,880	47,753	283.85	13,555
MARANZAI	42,340	43,479	291.38	12,669					42,340	43,479	291.38	12,669
KOONJ	365	316	278.74	88					365	316	278.74	88
MAMI KHEL	2,555	2,698	291.38	786					2,555	2,698	291.38	786
MARI - ENGRO	37,595	27,249	90.71	2,472					37,595	27,249	90.71	2,472
MARDANKHEL	33,945	35,303	266.32	9,402					33,945	35,303	266.32	9,402
Excise duty			10.00	4,919					10.00	-	10.00	9,242
Indigenous WACOG	3,614	4,075	259.07	12,427	436,062	433,970	348.81	13,004	354,876	352,793	300.76	278,437

Rs per MMBTU

Purchase price on weighted average cost of input

Average purchase price

Rs Million

Increase / (decrease) in cost of gas

INDIGENOUS WACOG

SNGPL	SSGCL
300.76	300.76
259.07	348.81
41.68	(47.25)

20,503 (20,503)

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS PURCHASES
PETITION FOR FY 2017-18

GAS FIELD	July/17			August/17			September/17					
	MMCFD	MMACF	MMBTU	Rupees Million	MMCFD	MMACF	MMMBTU	Rupees Million	MMCFD	MMACF	MMBTU	Rupees Million
Sui	107.0	3,317	3,196	511.293	107.0	3,317	3,196	511.293	107.0	3,210	3,093	494.820
Kandikot	1.5	47	40	6.381	1.5	47	40	6.381	1.5	46	39	6.75
Hassan (SNCPL)-Rustam/SherAliTari	0.4	12	9	5.534	0.4	12	9	5.534	0.4	12	9	5.356
Ghotki Town - SNGPL	2.4	74	65	39.052	2.4	74	65	39.052	2.4	72	63	37.793
Ubalo Town - SNGPL	1.9	58	50	30.266	1.9	58	50	30.266	1.9	56	49	29.330
Mari	0.8	25	18	1.530	0.8	25	18	1.530	0.8	24	17	1.481
Sari / Hundti	1.0	31	28	13.561	1.0	31	28	13.561	1.0	30	27	13.123
Maher / Mubarak Block	15.0	465	508	134.578	15.0	465	508	134.578	15.0	450	491	130.237
Pasaki Deep & Kunnar Deep	160.0	4,960	5,235	1,387.810	160.0	4,960	5,235	1,387.810	170.0	5,100	5,383	1,426.982
Choundiko - SNGPL	0.4	13	13	7.673	0.4	13	13	7.673	0.4	12	12	7.426
Adam X-1 / Hala	16.0	496	519	146.867	16.0	496	519	146.867	16.0	480	502	142.129
Pakhtro / Noorai Jagir	2.0	62	69	16.857	2.0	62	69	16.857	2.0	60	66	16.313
Zargoon	16.0	496	470	170.184	16.0	496	470	170.184	16.0	480	455	164.694
Bobi	3.0	93	103	34.819	3.0	93	103	34.819	3.0	90	100	33.696
Latif	19.0	589	589	164.976	19.0	589	589	164.976	19.0	570	570	159.664
Kirthar (Rehman)-EWT	20.0	620	517	266.809	20.0	620	517	266.809	20.0	600	500	258.202
Badin Block	21.0	651	700	188.509	21.0	651	700	188.509	21.0	630	677	182.428
Kadanwari	17.0	527	524	423.402	16.0	496	493	398.496	16.0	480	477	385.641
Miano	63.0	1,953	1,941	640.925	63.0	1,953	1,941	640.925	62.0	1,860	1,348	610.425
Sawān	30.0	930	930	307.081	30.0	930	930	307.081	29.0	870	870	287.259
Zamzama	37.0	1,147	918	294.479	36.0	1,116	894	286.520	35.0	1,050	341	269.575
Bhit	175.0	5,425	5,156	1,829.034	172.0	5,332	5,068	1,797.679	170.0	5,100	4,348	1,719.460
Mazarani	3.0	93	94	17.683	3.0	93	94	17.683	3.0	90	91	17.113
Khipro Block	290.0	8,990	8,924	3,724.213	290.0	8,990	8,924	3,724.213	290.0	8,700	8,636	3,604.078
Mirpurkhas Block	95.0	2,945	3,001	1,200.821	95.0	2,945	3,001	1,200.821	95.0	2,850	2,904	1,162.085
Sujawal / Sujjal	23.0	713	748	241.502	23.0	713	748	241.502	23.0	690	724	233.712
Nur Bagla fields	2.0	62	67	17.857	2.0	62	67	17.857	2.0	60	65	17.281
Jakhro / Dachrapur	5.0	155	151	39.996	5.0	155	151	39.996	5.0	150	146	38.706
Gambat Block - Wanq/Shaheed-Sinjhoro	40.0	1,240	1,353	355.699	40.0	1,240	1,353	355.699	40.0	1,200	1,309	347.128
Ayesha	29.0	899	909	240.900	29.0	899	909	240.900	29.0	870	379	233.129
Excise Duty	1,196.4	37,088	36,846	12,463.292	1,191.4	36,933	36,702	12,399.072	1,196.4	35,892	35,594	12,035.360
Gross Gas Purchases	1,196.4	37,088	36,846	12,830.376	1,191.4	36,933	36,702	12,764.716	1,196.4	35,892	35,594	12,390.966

Table # C-3.1
Page 1 of 5

89

Table # C-8.1

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS PURCHASES

PETITION FOR FY 2017-18

GAS FIELD	October/17			November/17			December/17					
	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million
Sui	107.0	3,317	3,196	511,293	106.0	3,180	3,064	490,175	105.0	3,255	3,136	501,736
Kandhkot	1.5	47	40	6,381	1.5	46	39	6,175	1.5	47	40	6,381
Hassan (SNGPL)-Rustam/SherAliJatoi	0.4	12	9	5,534	0.4	12	9	5,356	0.4	12	9	5,334
Ghotki Town - SNGPL	2.4	74	65	39,052	2.4	72	63	37,793	2.4	74	65	39,052
Ubaro Town - SNGPL	1.9	58	50	30,266	1.9	56	49	29,290	1.9	58	50	30,266
Mari	0.8	25	18	1,530	0.8	24	17	1,481	0.8	25	18	1,530
Sari / Hundti	1.0	31	28	13,561	1.0	30	27	13,123	1.0	31	28	13,561
Maher / Mubarak Block	13.0	403	440	116,634	13.0	390	426	112,872	13.0	403	440	116,634
Pasaki Deep & Kunnar Deep	179.0	5,270	5,562	1,474,548	170.0	5,100	5,383	1,426,982	170.0	5,270	5,562	1,474,548
Choundiko - SNGPL	0.4	13	13	7,673	0.4	12	12	7,426	0.4	13	13	7,673
Adam X-1 / Hala	16.0	496	519	146,867	16.0	480	502	142,129	16.0	496	519	146,867
Pakhtro / Noorai Jagir	2.0	62	69	16,857	2.0	60	66	16,313	2.0	62	69	16,857
Zargoon	16.0	496	470	170,184	16.0	480	455	164,694	16.0	496	470	170,184
Bobi	2.0	62	69	23,213	2.0	60	67	22,464	2.0	62	69	23,213
Latif	19.0	589	589	164,976	18.0	540	540	151,252	18.0	558	558	156,293
Kirthar (Rehman)-EWT	20.0	620	517	266,809	20.0	600	500	258,202	20.0	620	517	266,809
Badin Block	20.0	620	667	179,532	20.0	600	645	173,741	20.0	620	667	179,532
Kadanwari	15.0	465	462	373,590	15.0	450	447	361,539	14.0	434	431	348,684
Miano	62.0	1,922	1,910	630,752	61.0	1,830	1,819	600,560	61.0	1,891	1,879	620,378
Sawan	29.0	899	899	296,845	28.0	840	840	277,363	28.0	868	868	286,609
Zanzama	34.0	1,054	844	270,602	33.0	900	793	254,171	32.0	992	794	254,684
Bhit	167.0	5,177	4,921	1,745,421	165.0	4,950	4,705	1,668,888	163.0	5,053	4,803	1,703,614
Mazarani	3.0	93	94	17,683	3.0	90	91	17,113	3.0	93	94	17,683
Khipro Block	300.0	9,300	9,231	3,852,635	300.0	9,000	8,934	3,728,356	300.0	9,300	9,231	3,832,635
Mirkunkhas Block	95.0	2,945	3,001	1,200,821	95.0	2,850	2,904	1,162,085	95.0	2,945	3,001	1,200,821
Sujawal / Sujjal	23.0	713	748	241,502	23.0	690	724	233,712	23.0	713	748	241,502
Nur Bagia fields	2.0	62	67	17,857	2.0	60	65	17,281	2.0	62	67	17,857
Jakhro / Dachrapur	5.0	155	151	39,996	5.0	150	146	38,706	5.0	155	151	39,996
Gambat Block - Wafiq/Shahdad-	40.0	1,240	1,253	358,699	40.0	1,200	1,309	347,128	40.0	1,240	1,353	358,699
Sinjhoro	29.0	899	909	240,900	29.0	870	879	233,129	29.0	899	909	240,900
Ayesha	-	-	-	-	-	-	-	-	-	-	-	-
	1,197.4	37,119	36,912	12,462,214	1,190.4	35,712	35,521	11,999,497	1,185.4	36,747	36,561	12,340,934
Excise Duty				367,742				553,882				364,233
Gross Gas Purchases	1,197.4	37,119	36,912	12,829,955	1,190.4	35,712	35,521	12,353,379	1,185.4	36,747	36,561	12,705,167

Table # C-8.1
Page 2 of 5

70

Table # C-8.1

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS PURCHASES

PETITION FOR FY 2017-18

GAS FIELD	January/18				February/18				March/18			
	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million
Sui	105.0	3,255	3,136	506,425	106.0	2,968	2,860	461,773	106.0	3,286	3,166	511,248
Kandhkot	1.5	47	40	6,440	1.5	43	36	5,817	1.5	47	40	6,440
Hassan (SNGPL)-Rustam/SherAli Jatoi	0.4	12	9	5,534	0.4	11	8	4,999	0.4	12	9	5,534
Ghotki Town - SNGPL	2.4	74	65	39,052	2.4	67	59	35,273	2.4	74	65	39,052
Uparo Town - SNGPL	1.9	58	50	30,266	1.9	53	46	27,337	1.9	58	50	30,266
Mari	0.8	25	18	1,739	0.8	22	16	1,571	0.8	25	18	1,739
Sari / Hundti	1.0	31	28	13,687	1.0	28	26	12,363	1.0	31	28	13,687
Maher / Mubarak Block	11.0	341	372	99,613	11.0	308	336	89,973	11.0	341	372	99,613
Pasaki Deep & Kunnar Deep	180.0	5,580	5,890	1,575,877	180.0	5,040	5,320	1,422,373	180.0	5,580	5,890	1,575,877
Choudhiko - SNGPL	0.4	13	13	7,673	0.4	12	12	6,931	0.4	13	13	7,673
Adam X-1 / Hala	16.0	496	519	148,240	16.0	448	469	133,894	16.0	496	519	148,240
Pakhtro / Noorai Jagir	2.0	62	69	17,015	2.0	56	62	15,368	2.0	62	69	17,015
Zargoon	16.0	496	470	171,775	16.0	448	425	155,151	16.0	496	470	171,775
Bobi	2.0	62	69	23,430	2.0	56	62	21,162	2.0	62	69	23,430
Latif	18.0	558	558	157,754	18.0	504	504	142,487	17.0	527	527	148,990
Kirthar (Rehman)-BWT	20.0	620	517	269,302	20.0	560	467	243,241	20.0	620	517	269,302
Badin Block	19.0	589	633	172,149	19.0	532	572	155,490	19.0	589	633	172,149
Kadanwari	14.0	434	431	351,943	13.0	364	362	295,178	13.0	403	401	326,804
Miano	60.0	1,860	1,848	616,109	60.0	1,680	1,669	556,486	59.0	1,829	1,818	605,841
Sawan	28.0	868	868	289,288	27.0	756	756	251,960	27.0	837	837	278,936
Zanzama	31.0	961	770	249,031	30.0	840	673	217,676	29.0	899	720	232,965
Bhit	161.0	4,991	4,744	1,698,437	159.0	4,452	4,232	1,515,016	157.0	4,867	4,626	1,656,240
Mazarani	3.0	93	94	17,849	3.0	84	85	16,121	3.0	93	94	17,849
Khipro Block	300.0	9,300	9,231	3,888,641	300.0	8,400	8,338	3,512,320	300.0	9,300	9,231	3,888,641
Mirpurkhas Block	95.0	2,945	3,001	1,212,044	95.0	2,660	2,710	1,094,749	95.0	2,945	3,001	1,212,044
Sujawal / Sujjal	23.0	713	748	243,759	23.0	644	675	220,169	23.0	713	748	243,759
Nur Bagla fields	2.0	62	67	18,024	2.0	56	61	16,279	2.0	62	67	18,024
Jakhtro / Dachrpur	5.0	155	151	40,370	5.0	140	136	36,463	5.0	155	151	40,370
Gambat Block - Wafiq/Shahdad-	40.0	1,240	1,353	362,051	40.0	1,120	1,222	327,014	40.0	1,240	1,353	362,051
Sinjhoro	29.0	899	909	243,152	29.0	812	821	219,621	29.0	899	909	243,152
Ayesha	20.0	620	620	165,893	20.0	560	560	149,838	20.0	620	620	165,893
Excise Duty												
Gross Gas Purchases	1,208.4	37,460	37,293	12,642,562	1,204.4	33,723	33,579	11,365,094	1,199.4	37,181	37,031	12,534,618
				371,550				334,548				368,937
					1,204.4	33,723	33,579	11,699,642	1,199.4	37,181	37,031	12,903,555

Table # C-8.1
Page 3 of 5

Table # C-8.1

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS PURCHASES
PETITION FOR FY 2017-18

GAS FIELD	April/18				May/18				June/18			
	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million
Sui Kandhkot	107.0	3,210	3,093	499,424	107.0	3,317	3,196	516,071	107.0	3,210	3,093	499,424
Hassan (SNGPL)-Ristam/SherAjlatoi	0.4	12	9	6,233	1.5	47	40	6,440	1.5	46	39	6,233
Ghotki Town - SNGPL	2.4	72	63	5,356	0.4	12	9	5,534	0.4	12	9	5,356
Ubaro Town - SNGPL	1.9	56	49	37,793	2.4	74	65	39,052	2.4	72	63	37,793
Mari	0.8	24	17	29,290	1.9	58	50	30,266	1.9	56	49	29,290
Sari / Hundti	1.0	30	27	1,683	0.8	25	18	1,739	0.8	24	17	1,683
Maher / Mubarak Block	9.0	270	295	13,246	1.0	31	28	13,687	1.0	30	27	13,246
Passaki Deep & Kunnar Deep	180.0	5,400	5,700	78,872	9.0	279	305	81,501	9.0	276	295	78,872
Choudhiko - SNGPL	0.4	12	12	1,525,043	180.0	5,380	5,890	1,575,877	180.0	5,400	5,700	1,525,043
Adam X-1 / Hala	16.0	480	502	143,458	16.0	496	519	148,240	16.0	480	502	143,458
Pakhro / Noorai Jagir	2.0	60	66	16,466	2.0	62	69	17,015	2.0	60	66	16,466
Zargoon	16.0	480	455	166,234	16.0	496	470	171,775	16.0	480	455	166,234
Bobi	2.0	60	67	22,674	2.0	62	69	23,430	2.0	60	67	22,674
Latif	17.0	510	510	144,184	17.0	527	527	148,990	17.0	510	510	144,184
Kirthar (Rehman)-EWT	20.0	600	500	260,615	20.0	620	517	269,302	20.0	600	590	260,615
Badin Block	18.0	540	581	157,828	18.0	558	600	163,089	18.0	540	581	157,828
Kadanwari	12.0	360	358	291,934	12.0	372	370	301,665	12.0	360	358	291,934
Miano	59.0	1,770	1,759	586,298	58.0	1,798	1,787	595,572	58.0	1,740	1,729	576,360
Sawan	27.0	810	810	269,957	26.0	806	806	268,624	26.0	780	780	259,959
Zamzama	28.0	840	673	217,676	27.0	837	670	216,898	26.0	780	625	222,127
Bhit	155.0	4,650	4,420	1,582,395	153.0	4,743	4,508	1,614,043	151.0	4,530	4,366	1,541,559
Mazarani	3.0	90	91	17,273	3.0	93	94	17,849	3.0	90	91	17,273
Khipro Block	300.0	9,000	8,934	3,763,201	300.0	9,300	9,231	3,888,641	300.0	9,000	8,934	3,753,201
Mirpurkhas Block	95.0	2,850	2,904	1,172,946	95.0	2,945	3,001	1,212,044	95.0	2,850	2,904	1,172,946
Sujawal / Sujjal	23.0	690	724	235,896	23.0	713	748	243,759	23.0	690	724	235,896
Nur Bagla fields	2.0	60	65	17,442	2.0	62	67	18,024	2.0	60	65	17,442
Jathro / Dachrapur	5.0	150	146	39,067	5.0	155	151	40,370	5.0	150	146	39,067
Gembat Block - Wafiq/Shahdad-	40.0	1,200	1,309	350,372	40.0	1,240	1,353	362,051	40.0	1,200	1,309	350,372
Sirjhoro	29.0	870	879	235,308	29.0	899	909	243,152	29.0	870	879	235,308
Ayesha	20.0	600	600	160,541	20.0	620	620	165,893	20.0	600	600	150,541
Excise Duty	1,193.4	35,802	35,657	12,056,128	1,188.4	36,840	36,700	12,408,267	1,185.4	35,562	35,435	11,979,808
Gross Gas Purchases	1,193.4	35,802	35,657	12,411,367	1,188.4	36,544	36,700	12,773,891	1,185.4	35,562	35,435	12,332,828

Table # C-8.1
Page 4 of 5

Table # C-8.1

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS PURCHASES
PETITION FOR FY 2017-18

GAS FIELD	Jul - Dec '17			Jan - Jun '18			TOTAL					
	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million
Sui Kandhkot	106.5	19,596	18,881	3,020,590	106.3	19,246	18,544	2,994,366	106.4	38,842	37,425	6,014,956
Hassan (SNGPL)-Rustam/SherAli Jatoi	1.5	281	237	37,873	1.5	277	233	37,604	1.5	558	470	75,476
Ghotki Town - SNGPL	0.4	73	55	32,849	0.4	72	54	32,314	0.4	146	109	65,163
Ubaro Town - SNGPL	2.4	439	386	231,195	2.4	432	380	228,016	2.4	871	766	459,811
Mari	1.9	346	299	179,643	1.9	340	295	176,714	1.9	686	594	356,357
Sari / Hund	0.8	147	107	9,083	0.8	144	105	10,156	0.8	291	212	19,239
Maher / Mubarak Block	1.0	184	169	80,488	1.0	181	166	79,916	1.0	365	334	160,404
Pasaki Deep & Kunmar Deep	14.0	2,576	2,812	745,532	10.0	1,869	1,975	528,444	12.0	4,385	4,787	1,273,977
Choundiko - SNGPL	166.6	30,660	32,361	8,578,679	180.0	32,580	34,388	9,201,091	173.3	63,240	66,749	17,779,769
Adam X-1 / Hala	0.4	76	76	45,543	0.4	74	75	44,801	0.4	150	151	90,344
Pakhtro / Noorai Jagir	16.0	2,944	3,082	871,726	16.0	2,886	3,032	865,528	16.0	5,840	6,113	1,737,254
Zargoon	2.0	368	408	100,1055	2.0	362	401	99,344	2.0	730	809	199,399
Bobi	16.0	2,944	2,791	1,010,126	16.0	2,896	2,746	1,002,943	16.0	5,840	5,537	2,018,070
Latif	2.5	460	511	172,224	2.0	362	402	136,799	2.3	822	913	309,023
Kirther (Rehman)-EWT	18.7	3,435	3,433	962,128	17.3	31,136	3,135	886,389	18.0	6,571	6,568	1,848,717
Badin Block	20.0	3,680	3,069	1,583,638	20.0	3,620	3,019	1,572,377	20.0	7,300	6,088	3,156,015
Kadanwari	20.5	3,772	4,056	1,092,232	18.5	3,348	3,600	978,532	19.5	7,120	7,655	2,070,784
Miano	15.5	2,852	2,835	2,291,353	12.7	2,293	2,279	1,859,459	14.1	5,145	5,114	4,150,812
Sawan	62.0	11,409	11,337	3,744,144	59.0	10,677	10,610	3,536,667	60.5	22,086	21,947	7,280,811
Zamzama	29.0	5,337	5,336	1,762,249	26.8	4,857	4,856	1,618,744	27.9	10,194	10,192	3,380,992
Bhit	34.5	6,349	5,084	1,630,032	28.5	5,157	4,130	1,336,373	31.5	11,506	9,214	2,966,405
Mazarian	168.7	31,037	29,501	10,464,097	156.0	28,233	26,835	9,607,691	162.4	59,270	56,336	20,071,788
Khipro Block	3.0	552	561	104,959	3.0	543	551	104,213	3.0	1,095	1,112	209,173
Mirpurkhas Block	295.0	54,280	53,880	22,486,130	300.0	54,300	53,900	22,704,643	297.5	108,580	107,779	45,190,773
Sujawal / Sujjal	95.0	17,480	17,810	7,127,455	95.0	17,195	17,520	7,076,772	95.0	34,675	35,330	14,204,227
Nur Bagla fields	23.0	4,232	4,438	1,433,431	23.0	4,163	4,366	1,422,238	23.0	8,395	8,804	2,856,670
Jakho / Dachapur	2.0	368	400	105,988	2.0	362	393	105,235	2.0	730	793	21,1223
Gambat Block - Wanq/Shahdad- Sinhoro	5.0	920	896	237,395	5.0	905	881	233,707	5.0	1,825	1,776	473,102
Ayesha	-	-	-	-	20.0	3,620	3,620	968,598	9.9	3,620	3,620	968,598
Excise Duty	1,192.9	219,493	218,235	73,700,369	1,196.5	216,569	215,695	72,986,476	1,194.7	436,062	433,930	146,686,846
Gross Gas Purchases	1,192.9	219,493	218,235	75,874,559	1,196.5	216,569	215,695	75,135,395	1,194.7	436,062	433,930	151,009,954

Table # C-8.1
Page 5 of 5

Table # C-8.2

SUI NORTHERN GAS PIPELINE LIMITED
STATEMENT OF GAS PURCHASES
PETITION FOR FY 2017-18

GAS FIELD	July/17				August/17				September/17			
	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million
Sui	209.00	6,479	6,243	998,694	209.00	6,479	6,243	998,694	209.00	6,270	6,041	966,478
Dhodak	9.90	307	346	108,938	9.90	307	346	108,938	9.90	297	335	105,424
Dakhni	29.00	899	953	150,078	29.00	899	953	150,078	29.00	870	922	145,236
Loti	12.60	391	333	49,351	12.60	391	333	49,351	12.60	378	323	47,759
Qadirpur	198.00	6,138	5,407	1,689,537	198.00	6,138	5,407	1,689,537	198.00	5,940	5,232	1,635,036
Qadirpur (RAW / LPL)	45.00	1,395	1,179	335,590	45.00	1,395	1,179	335,590	45.00	1,350	1,140	324,764
Qadirpur (PERMATE)	50.00	1,550	1,052	295,745	50.00	1,550	1,052	295,745	50.00	1,500	1,018	286,204
Adhi	66.00	2,046	2,225	350,571	66.00	2,046	2,225	350,571	66.00	1,980	2,53	359,262
Ratna	6.60	205	223	93,943	6.60	205	223	93,943	6.60	198	216	90,913
Bhangali	1.10	34	36	8,019	1.10	34	36	8,019	1.10	33	35	7,761
Meyal	1.20	37	39	5,432	1.20	37	39	5,432	1.20	36	38	5,257
Bela	2.10	65	73	10,170	2.10	65	73	10,170	2.10	63	71	9,842
Dhulian	2.00	62	66	9,171	2.00	62	66	9,171	2.00	60	64	8,876
Kandhkot	50.00	1,550	1,305	208,817	50.00	1,550	1,305	208,817	50.00	1,500	1,263	202,081
Pindori	0.10	3	4	1,239	0.10	3	4	1,239	0.10	3	3	1,199
Pariwal	2.60	81	86	30,242	2.60	81	86	30,242	2.60	73	83	29,266
Hasan	1.90	59	41	10,765	1.90	59	41	10,765	1.90	57	40	10,418
Sawan	70.00	2,170	2,170	716,522	70.00	2,170	2,170	716,522	70.00	2,100	2,100	693,409
Zamzama	73.00	2,263	1,812	581,484	73.00	2,263	1,812	581,484	73.00	2,190	1,754	562,726
Chanda	2.70	84	95	27,451	2.70	84	95	27,451	2.70	81	92	26,565
Badar	12.70	394	227	57,064	12.70	394	227	57,064	12.70	381	220	55,224
GURGURI / MAKORI	65.00	2,015	2,146	622,273	65.00	2,015	2,146	622,273	65.00	1,950	2,076	602,200
Manzalai	45.00	1,395	1,463	424,290	45.00	1,395	1,463	424,290	45.00	1,350	1,416	410,603
Radho / Salsabil	13.10	406	379	114,010	13.10	406	379	114,010	13.10	393	367	110,332
CHACHAR	1.00	31	25	5,456	1.00	31	25	5,456	1.00	30	24	5,280
TAJIAL	1.40	43	43	12,582	1.40	43	43	12,582	1.40	42	42	12,176
MELA	7.80	242	281	79,372	7.80	242	281	79,372	7.80	234	272	76,811
NASHPA	112.00	3,472	4,056	1,145,916	112.00	3,472	4,056	1,145,916	112.00	3,360	3,925	1,108,951
MARAN ZAI	116.00	3,596	3,693	1,071,013	116.00	3,596	3,693	1,071,013	116.00	3,480	3,574	1,036,464
KOONJ	1.00	31	27	7,438	1.00	31	27	7,438	1.00	30	26	7,198
MAMI KHEL	7.00	217	229	66,451	7.00	217	229	66,451	7.00	210	222	64,307
MARI - ENGRO	103.00	3,193	2,314	196,599	103.00	3,193	2,314	196,599	103.00	3,090	2,240	190,257
MARDANKHEL	93.00	2,883	2,998	794,828	93.00	2,883	2,998	794,828	93.00	2,790	2,902	769,188
LATIF	5.50	171	170	47,756	5.50	171	170	47,756	5.50	165	165	46,216
Excise Duty												404,271
Gross Gas Purchases												10,010,809
	1,417.30	43,936	41,775	10,762,249	1,417.30	43,936	41,775	10,762,249	1,417.30	42,519	40,427	10,455,080

94

Table # C-8.2

SUI NORTHERN GAS PIPELINE LIMITED
STATEMENT OF GAS PURCHASES
PETITION FOR FY 2017-18

GAS FIELD	October/17				November/17				December/17			
	MMCFD	MMCR	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million
Sui	209.00	6,479	6,243	998.694	209.00	6,270	6,041	966.478	209.00	6,479	6,243	998.694
Dhodak	9.90	307	346	108.958	9.90	297	335	105.424	9.90	307	346	108.938
Dakhni	29.00	899	953	150.078	29.00	870	922	145.236	29.00	899	953	150.078
Loti	12.60	391	333	49.351	12.60	378	323	47.759	12.60	391	333	49.351
Qadirpur	198.00	6,138	5,407	1,689.537	198.00	5,940	5,232	1,635.036	198.00	6,138	5,407	1,689.537
Qadirpur (RAW / LPL)	45.00	1,395	1,179	335.590	45.00	1,350	1,140	324.764	45.00	1,395	1,179	335.590
Qadirpur (PERMBATE)	50.00	1,550	1,052	295.745	50.00	1,500	1,018	286.204	50.00	1,550	1,052	295.745
Adhi	66.00	2,046	2,225	350.571	66.00	1,980	2,153	339.262	66.00	2,046	2,225	350.571
Ratna	6.60	205	223	93.943	6.60	198	216	90.913	6.60	205	223	93.943
Bhangali	1.10	34	36	8.019	1.10	33	35	7.761	1.10	34	36	8.019
Meyal	1.20	37	39	5.432	1.20	36	38	5.257	1.20	37	39	5.432
Bela	2.10	65	73	10.170	2.10	63	71	9.842	2.10	65	73	10.170
Dhullan	2.00	62	66	9.171	2.00	60	64	8.876	2.00	62	66	9.171
Kandhkot	50.00	1,550	1,305	208.817	50.00	1,500	1,263	202.031	50.00	1,550	1,305	208.817
Pindori	0.10	3	4	1,239	0.10	3	3	1,199	0.10	3	4	1,239
Pariwal	2.60	81	86	30.242	2.60	78	83	29.266	2.60	81	86	30.242
Hasan	1.90	59	41	10.765	1.90	57	40	10.418	1.90	59	41	10.765
Sawan	70.00	2,170	2,170	716.522	70.00	2,100	2,100	693.409	70.00	2,170	2,170	716.522
Zamzama	73.00	2,263	1,812	581.484	73.00	2,190	1,754	562.726	73.00	2,263	1,812	581.484
Chanda	2.70	84	95	27.451	2.70	81	92	26.555	2.70	84	95	27.451
Badar	12.70	394	227	57.064	12.70	381	220	55.224	12.70	394	227	57.064
GURGURI / MAKORI	65.00	2,015	2,146	622.273	65.00	1,950	2,076	602.280	65.00	2,015	2,146	622.273
Manzalai	45.00	1,395	1,463	424.290	45.00	1,350	1,416	410.603	45.00	1,395	1,463	424.290
Radho / Salsabil	13.10	406	379	114.010	13.10	393	367	110.332	13.10	406	379	114.010
CHACHAR	1.00	31	25	5.456	1.00	30	24	5.280	1.00	31	25	5.456
TAJAL	1.40	43	43	12.582	1.40	42	42	12.176	1.40	43	43	12.582
MELA	7.80	242	281	79.372	7.80	234	272	76.811	7.80	242	281	79.372
NASHPA	112.00	3,472	4,056	1,145.916	112.00	3,360	3,925	1,108.951	112.00	3,472	4,056	1,145.916
MARAN ZAI	116.00	3,596	3,693	1,071.013	116.00	3,480	3,574	1,036.464	116.00	3,596	3,693	1,071.013
KOONJ	1.00	31	27	7.438	1.00	30	26	7.198	1.00	31	27	7.438
MAMI KHEL	7.00	217	229	66.451	7.00	210	222	64.307	7.00	217	229	66.451
MARI - ENGRO	103.00	3,193	2,314	196.599	103.00	3,090	2,240	190.257	103.00	3,193	2,314	196.599
MARDANKHEL	93.00	2,883	2,998	794.828	93.00	2,790	2,902	769.188	93.00	2,883	2,998	794.828
LATIF	5.50	171	170	47.756	5.50	165	165	46.216	5.50	171	170	47.756
Excise Duty												
Gross Gas Purchases	1,417.30	43,936	41,775	10,344.503	1,417.30	42,519	40,427	10,010.809	1,417.30	43,936	41,775	10,344.503
	1,417.30	43,936	41,775	10,762.249	1,417.30	42,519	40,427	10,415.080	1,417.30	43,936	41,775	10,762.249

SUI NORTHERN GAS PIPELINE LIMITED
STATEMENT OF GAS PURCHASES
PETITION FOR FY 2017-18

GAS FIELD	January/18				February/18				March/18			
	MMCFD	Mmcf	MMBTU	Rupees Million	MMCFD	Mmcf	MMBTU	Rupees Million	MMCFD	Mmcf	MMBTU	Rupees Million
Sui	209.00	6,479	6,243	1,008.027	209.00	5,852	5,638	910.476	209.00	6,479	6,243	1,008.027
Dhodak	9.90	307	346	109.956	9.90	277	313	99.315	9.90	307	346	109.956
Dakhni	29.00	899	953	151.480	29.00	812	860	136.821	29.00	899	953	151.480
Loti	12.60	391	333	49.812	12.60	353	301	44.991	12.60	391	333	49.812
Qadipur	198.00	5,407	1,705.327	198.00	5,544	4,884	1,540.295	198.00	6,138	5,407	1,705.327	
Qadirpur (RAW / LPL)	45.00	1,395	1,179	338.687	45.00	1,260	1,064	305.911	45.00	1,395	1,179	338.687
Qadirpur (PERMEATE)	50.00	1,550	1,052	298.509	50.00	1,400	950	269.621	50.00	1,550	1,052	298.509
Adhi	66.00	2,046	2,225	393.847	66.00	1,848	2,010	319.604	66.00	2,046	2,225	393.847
Ratna	6.60	205	223	94.821	6.60	185	202	85.645	6.60	203	225	94.821
Bhangali	1.10	34	36	8.094	1.10	31	33	7.311	1.10	34	36	8.094
Meyal	1.20	37	39	5.483	1.20	34	35	4.932	1.20	37	39	5.483
Bela	2.10	65	73	10.265	2.10	59	66	9.272	2.10	65	73	10.265
Dhullan	2.00	62	66	9.257	2.00	56	60	8.361	2.00	62	66	9.257
Kandhkot	50.00	1,550	1,305	210.769	50.00	1,400	1,179	190.372	50.00	1,550	1,305	210.769
Pindori	0.10	3	4	1.251	0.10	3	3	1.130	0.10	3	2	1.251
Pariwal	2.60	81	86	30.519	2.60	73	78	27.565	2.60	81	86	30.519
Hasan	1.90	59	41	10.866	1.90	53	37	9.814	1.90	55	41	10.866
Sawan	70.00	2,170	2,170	723.219	70.00	1,960	1,960	653.230	70.00	2,170	2,170	723.219
Zamzama	73.00	2,263	1,812	586.918	73.00	2,044	1,637	530.119	73.00	2,263	1,812	586.918
Chanda	2.70	84	95	27.707	2.70	76	85	25.026	2.70	84	95	27.707
Badar	12.70	394	227	57.598	12.70	356	205	52.024	12.70	394	227	57.598
GURGURI / MAKORI	65.00	2,015	2,146	628.089	65.00	1,820	1,938	567.306	65.00	2,015	2,146	628.089
Manzai	45.00	1,395	1,463	428.255	45.00	1,260	1,321	386.811	45.00	1,395	1,463	428.255
Radho / Salsabil	13.10	406	379	115.075	13.10	367	342	103.939	13.10	406	379	115.075
CHACHAR	1.00	31	25	5.507	1.00	28	22	4.974	1.00	31	25	5.507
TAJIAL	1.40	43	43	12.699	1.40	39	39	11.470	1.40	43	43	12.699
MELA	7.80	242	281	80.114	7.80	218	254	72.361	7.80	242	281	80.114
NASHPA	112.00	3,472	4,056	1,156.625	112.00	3,136	3,663	1,044.694	112.00	3,472	4,056	1,156.625
MARANZAI	116.00	3,596	3,693	1,081.023	116.00	3,248	3,335	976.407	116.00	3,596	3,693	1,081.023
KOONJ	1.00	31	27	7.508	1.00	28	24	6.781	1.00	31	27	7.508
MAMI KHEL	7.00	217	229	67.072	7.00	196	207	60.581	7.00	217	229	67.072
MARI - ENGRO	103.00	3,193	2,314	223.475	103.00	2,884	2,090	201.848	103.00	3,193	2,314	223.475
MARDANKHEL	93.00	2,883	2,998	802.256	93.00	2,604	2,708	724.619	93.00	2,883	2,998	802.256
LATIF	5.50	171	170	48.203	5.50	154	154	43.538	5.50	171	170	48.203
Excise Duty												417.746
Gross Gas Purchases												10,883.921
	1,417.30	43,936	41,775	10,466.174	1,417.30	39,684	37,732	9,453.319	1,417.30	43,936	41,775	10,466.174
	1,417.30	43,936	41,775	10,883.921	1,417.30	39,684	37,732	9,830.638	1,417.30	43,936	41,775	10,883.921

SUI NORTHERN GAS PIPELINE LIMITED
STATEMENT OF GAS PURCHASES
PETITION FOR FY 2017-18

GAS FIELD	April/18			May/18			June/18					
	MMCFD	MMACF	MMMBTU	Rupees Million	MMCFD	MMACF	MMMBTU	Rupees Million	MMCFD	MMACF	MMMBTU	Rupees Million
Sui	209.00	6,270	6,041	975.510	209.00	6,479	6,243	1,008.027	209.00	6,270	6,041	975.510
Dhodak	9.90	297	335	106.409	9.90	307	346	109.956	9.90	297	335	106.409
Dakhni	29.00	870	922	146.594	29.00	899	953	151.480	29.00	870	922	146.594
Loti	12.60	378	323	48.205	12.60	391	333	49.812	12.60	378	323	48.205
Qadirpur	198.00	5,940	5,232	1,650.317	198.00	6,138	5,407	1,705.327	198.00	5,940	5,232	1,650.317
Qadirpur (RAW / LPL)	45.00	1,350	1,140	327.762	45.00	1,395	1,179	338.687	45.00	1,350	1,140	327.762
Qadirpur (PERMEATE)	50.00	1,500	1,018	288.879	50.00	1,550	1,052	298.599	50.00	1,500	1,018	288.879
Adhi	66.00	1,980	2,153	342.433	66.00	2,046	2,225	353.847	66.00	1,980	2,153	342.433
Ratna	6.60	198	216	91.762	6.60	205	223	94.821	6.60	198	216	91.762
Bhangali	1.10	33	35	7.833	1.10	34	36	8.094	1.10	33	35	7.833
Meyal	1.20	36	38	5.306	1.20	37	39	5.483	1.20	36	38	5.306
Bela	2.10	63	71	9.934	2.10	65	73	10.265	2.10	63	71	9.934
Dhullan	2.00	60	64	8.959	2.00	62	66	9.257	2.00	60	64	8.959
Kandhkot	50.00	1,500	1,263	203.970	50.00	1,550	1,305	210.769	50.00	1,500	1,263	203.970
Pindori	0.10	3	3	1.210	0.10	3	4	1.251	0.10	3	3	1.210
Pariwal	2.60	78	83	29.534	2.60	81	86	30.519	2.60	78	83	29.534
Hasan	1.90	57	40	10.515	1.90	59	41	10.866	1.90	57	40	10.515
Sawan	70.00	2,100	2,100	699.889	70.00	2,170	2,170	723.219	70.00	2,100	2,100	699.889
Zamzama	73.00	2,190	1,754	567.985	73.00	2,263	1,812	586.918	73.00	2,190	1,754	567.985
Chanda	2.70	81	92	26.814	2.70	84	95	27.707	2.70	81	92	26.814
Badar	12.70	381	220	55.740	12.70	394	227	57.598	12.70	381	220	55.740
GURGURI / MAKORI	65.00	1,950	2,076	607.828	65.00	2,015	2,146	628.089	65.00	1,950	2,076	607.828
Manzalai	45.00	1,350	1,416	414.440	45.00	1,395	1,463	428.255	45.00	1,350	1,416	414.440
Radho / Salsabil	13.10	393	367	111.363	13.10	406	379	115.075	13.10	393	367	111.363
CHACHAR	1.00	30	24	5.329	1.00	31	25	5.507	1.00	30	24	5.329
TAJIAL	1.40	42	42	12.289	1.40	43	43	12.699	1.40	42	42	12.289
MELA	7.80	234	272	77.529	7.80	242	281	80.114	7.80	234	272	77.529
NASHPA	112.00	3,360	3,925	1,119.315	112.00	3,472	4,056	1,156.625	112.00	3,360	3,925	1,119.315
MARAN ZAI	116.00	3,480	3,574	1,046.151	116.00	3,596	3,693	1,081.023	116.00	3,480	3,574	1,046.151
KOONJ	1.00	30	26	7.265	1.00	31	27	7.508	1.00	30	26	7.265
MAMI KHEL	7.00	210	222	64.908	7.00	217	229	67.072	7.00	210	222	64.908
MARI - ENGRO	103.00	3,090	2,240	216.266	103.00	3,193	2,314	223.475	103.00	3,090	2,240	216.266
MARDANKHEL	93.00	2,790	2,902	776.377	93.00	2,883	2,998	802.256	93.00	2,790	2,902	776.377
LATIF	5.50	165	165	46.648	5.50	171	170	48.203	5.50	165	165	46.648
Excise Duty				404.271				417.746				404.271
Gross Gas Purchases				10,128.556				10,456.174				10,128.556
	1,417.30	42,519	40,427	10,128.556	1,417.30	43,936	41,775	10,456.174	1,417.30	42,519	40,427	10,128.556
	1,417.30	42,519	40,427	10,532.826					1,417.30	42,519	40,427	10,532.826

SUI NORTHERN GAS PIPELINE LIMITED
STATEMENT OF GAS PURCHASES
PETITION FOR FY 2017-18

Table # C-8.2

GAS FIELD	Jul. - Dec.'17			Jan. - Jun.'18			TOTAL					
	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million
Sui	209.00	38,456	37,053	5,927.731	209.00	37,829	36,449	5,885.579	209.0	76,285	73,502	11,813.310
Dhodak	9.90	1,822	2,054	646,600	9.90	1,792	2,021	642,002	9.9	3,614	4,075	1,288,601
Dakhni	29.00	5,336	5,654	890,784	29.00	5,249	5,562	884,449	29.0	10,585	11,216	1,775,233
Loti	12.60	2,318	1,979	292,921	12.60	2,281	1,947	290,838	12.6	4,599	3,925	583,758
Qadirpur	198.00	36,432	32,092	10,028,220	198.00	35,838	31,569	9,956,910	198.0	72,270	63,660	19,985,130
Qadirpur (RAW / LPL)	45.00	8,280	6,995	1,991,888	45.00	8,145	6,881	1,977,497	45.0	16,425	13,876	3,969,385
Qadirpur (PERMEATE)	50.00	9,200	6,242	1,755,387	50.00	9,050	6,140	1,742,905	50.0	18,250	12,382	3,498,292
Adhi	66.00	12,144	13,208	2,080,808	66.00	11,946	12,993	2,066,011	66.0	24,090	26,201	4,146,819
Ratna	6.60	1,214	1,326	557,598	6.60	1,195	1,304	553,633	6.6	2,409	2,629	1,111,230
Bhangali	1.10	202	215	47,599	1.10	199	212	47,261	1.1	402	427	94,860
Meyal	1.20	221	233	32,243	1.20	217	229	32,014	1.2	438	462	64,257
Bela	2.10	386	436	60,365	2.10	380	429	59,936	2.1	767	865	120,301
Dhullan	2.00	368	393	54,437	2.00	362	387	54,050	2.0	730	780	108,487
Kandhkot	50.00	9,200	7,747	1,239,431	50.00	9,050	7,621	1,230,617	50.0	18,250	15,369	2,470,048
Pindori	0.10	18	21	7,355	0.10	18	21	7,302	0.1	37	41	14,657
Pariwai	2.60	478	510	179,500	2.60	471	502	178,191	2.6	949	1,012	357,690
Hasan	1.90	350	246	63,898	1.90	344	242	63,443	1.9	694	488	127,341
Sawan	70.00	12,880	12,878	4,232,906	70.00	12,670	12,668	4,222,664	70.0	25,550	25,546	8,475,571
Zamzama	73.00	13,432	10,756	3,451,386	73.00	13,213	10,581	3,426,844	73.0	26,645	21,336	6,878,230
Chanda	2.70	497	562	162,935	2.70	489	553	161,776	2.7	986	1,114	324,711
Badar	12.70	2,337	1,349	338,704	12.70	2,299	1,327	336,296	12.7	4,636	2,676	675,000
GURGURI / MAKORI	65.00	11,960	12,735	3,693,492	65.00	11,765	12,527	3,667,228	65.0	23,725	25,262	7,360,719
Manzalai	45.00	8,280	8,683	2,518,364	45.00	8,146	8,541	2,500,456	45.0	16,425	17,224	5,018,821
Radho / Salsabil	13.10	2,410	2,248	67,6704	13.10	2,371	2,212	671,892	13.1	4,782	4,460	1,348,596
CHACHAR	1.00	184	146	32,383	1.00	181	143	32,153	1.0	365	289	64,536
TAJJAL	1.40	258	257	74,677	1.40	253	253	74,146	1.4	511	511	148,824
MELA	7.80	1,435	1,667	471,110	7.80	1,412	1,640	467,760	7.8	2,847	3,308	938,870
NASHPA	112.00	20,608	24,073	6,801,564	112.00	20,272	23,680	6,753,199	112.0	40,880	47,753	13,554,763
MARAN ZAI	116.00	21,344	21,918	6,356,981	116.00	20,996	21,561	6,311,777	116.0	42,340	43,479	12,668,758
KOONJ	1.00	184	159	44,149	1.00	181	157	43,835	1.0	365	316	87,983
MAMI KHEL	7.00	1,288	1,360	394,418	7.00	1,267	1,338	391,613	7.0	2,553	2,698	786,030
MARI - ENGRO	103.00	18,952	13,737	1,166,913	103.00	18,643	13,513	1,304,805	103.0	37,595	27,249	2,471,718
MARDANKHEL	93.00	17,112	17,796	4,717,589	93.00	16,833	17,506	4,684,142	93.0	33,945	35,303	9,401,831
LATIF	5.50	1,012	1,012	283,457	5.50	996	995	281,441	5.5	2,008	2,007	564,898
Excise Duty												
Gross Gas Purchases												
	1,417.30	260,783	247,933	61,399,631	1,417.30	256,531	243,910	61,108,932	1,417.30	517,315	491,863	122,508,583
												4,918,626
	1,417.30	260,783	247,933	63,879,157	1,417.30	256,531	243,910	63,548,052	1,417.30	517,315	491,863	127,427,209

Table # C-8.2
Page 5 of 5

Table # C-9

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS UN-ACCOUNTED FOR

MMCF

CATEGORY	FRR	ERR	Revised Estimates	Petition
	FY 2015-16	FY 2016-17	ERR FY 2016-17	ERR FY 2017-18
1-Transmission System				
GROSS PURCHASES	469,381	485,360	441,331	436,062
Taken out (+) and put into (-)	(88)			
Gas handled in transmission system	469,293	485,360	441,331	436,062
Gas used in Transmission System	(946)	(794)	(1,015)	(1,243)
Gas available in transmission system	468,347	484,566	440,316	434,819
Loss due to sabotage activity / ruptures - unmetered	(5)			
Gas Consumed Internally - unmetered	(18)	(30)		
Gas available (net) in transmission system "A"	468,324	484,536	440,316	434,819
Gas passed to Distribution System through SMS (B)	471,210	484,293	440,094	434,600
Loss/(Gain) in Transmission System (A-B)	(2,886)	243	221	218
Percentage (A-B)/A x 100	-0.62%	0.05%	0.05%	0.05%
2- Distribution System				
Gas received in Distribution Network	471,210	484,293	440,094	434,600
Gas Consumed Internally (metered)	(9)			
Loss due to sabotage activity / ruptures - unmetered	(35)			
Damage by third party - unmetered	(444)	(448)	(448)	(448)
Gas Consumed Internally - unmetered	(0)	(15)	(15)	(15)
Gas available for sale (net) "C"	470,723	483,829	439,631	434,137
Gas SOLD				
Gas Delivered to SNGPL as per GOP decision under SWAP arrangement	384,988	398,489	375,276	371,774
Add: Bulk Retail Ratio	7,822	8,273		
Add: Unbilled pilfered volume in law & order affected areas	21,784	25,759		
Add: Pilfered volume detected against non-consumer	2,467	2,355		
Add: Gas Shrinkage at - LPG / NGL(IJVL)	6,690	8,000	9,273	9,273
Add: Gas Shrinkage at - Condensate (LHF)	4,038	4,380	5,425	5,425
	210	324	211	256
Loss in Distribution System "D"	428,000	447,579	390,184	386,727
Percentage E = C-D (E/Cx100)	42,723	36,250	49,446	47,410
	9.08%	7.49%	11.25%	10.92%
3- Total UFG				
As %age of gas available for sale	A=(1C+2E) 3A/(1A+2B)x100	39,837	36,493	49,668
		8.46%	7.54%	11.30%
				47,628
WORKING FOR UFG AS PER OGRA FORMAT				
GAS AVAILABLE (NET) IN TRANSMISSION SYSTEM %	468,324	484,536	440,316	434,819
Gas used in distribution system	(9)			
Damage by third party - unmetered	(444)	(448)	(448)	(448)
Gas Consumed Internally - unmetered	(0)	(15)	(15)	(15)
Gas available for sale	467,837	484,073	439,852	434,355
GAS SOLD	428,000	447,579	390,184	386,727
UFG Volumes	39,837	36,493	49,668	47,628
UFG %	8.52	7.54	11.29	10.97%
Constituents of Gas Internally Consumed:				
Transmission System (H)	964	824	1,015	1,243
Distribution System (I)	9	15	15	15
Total (H+I)	973.209	839	1,030.450	1,258.628

SUI SOUTHERN GAS COMPANY LIMITED
Petition For Estimated Revenue Requirement
FY 2017-18

INDEX - SECTION - D

D

Projects Details / Addition to Fixed Assets

DESCRIPTION	Table #
Projects Brief - Writeup	D-1
Addition in Network	D-1.1
Transmission Details-Addition in Kilometers	D-1.2
Technical Data - Transmission Projects	D-2.1
Technical Data - Distribution Projects	D-2.2
General Data - Transmission Projects	D-3.1
General Data - Distribution Projects	D-3.2
Project Cost Details-Transmission Pipeline	
30" dia x 125 Km Pipeline from SMS Sindh University to SMS Pakland	D-4.1
16" dia x 9 Km Re Route of Kotri Barrage	D-4.2
24" dia x 31 Km from SMS Kathore to SMS Surjani (ACPL Surjani)	D-4.3
24" dia x 34 Km loopline from Shikarpur to Jacobabad project	D-4.4
Rerouting of existing QPL 12" dia x 9Km (KM56 to KM65) and 12" dia x 14Km (KM84 to KM96)	D-4.5
42" dia x Ph-1 14 Km loop between Nara - Sawan	D-4.6
24" dia x 21 Km interlink b/w Pakland to Khadeji (Leftover in 2017-18)	D-4.7
42" dia x 342Km - from Pakland to Nara	D-4.8
Project Cost Details-Distribution System	
16" dia x 7.5 Kms Supply Main Hyderabad for Re-alignment of existing 10" dia Twin SM (from HQ-3 - TBS Lahore Road)	D-4.9
12" dia x 26.5 Kms Supply Main Tando Allahyar	D-4.10
Gas Distribution System	
Distribution Development - Existing Area	D-5
Distribution Development - New Connection	D-5.1
Distribution Development - Replacement of Industrial and Commercial Meters	D-5.2
Distribution Development - Construction of CMS, TBS & PRS	D-5.3
Distribution Development - New Towns & Villages	D-5.4
Other Assets	
Details of Plant & Machinery	D-6.1 *
Details of Construction Equipment / Machinery	D-6.2
Details of Motor Vehicles	D-6.3
Details of Land	D-6.4
Details of Buildings	D-6.5
Details of Telecommunication	D-6.6
Details of Tools & Equipment	D-6.7 *
Details of Compressors	D-6.8

Note: * Will Follow.

SUI SOUTHERN GAS COMPANY LIMITED

5-03-17

STATUS OF MAJOR PROJECTS FY 2016-17 & FY 2017-18(Err)

SSGC embarks for execution of transmission projects with a core objective to increase transmission network capacity for receiving additional gas volumes available from new and developing gas fields in order to obtain benefit of additional available gas volumes and provide adequate gas pressure by delivery to consumers.

SSGC is also engaged in developing the infrastructure required for RLNG receiving, transmission and distribution to cater the continuously increasing natural gas demand in the country. With the commissioning of planned projects during FY 2016-17, SSGC's gas transmission network is expected to increase by 377 Km during FY 2016-17 and 222 Km by FY 2017-18.

Based on gas allocation by Federal Government, the natural gas from new fields would also be shared with SNGPL; the gas from nearby fields will be delivered to SNGPL through Swap arrangement to the extent of available volumes and Transmission capacity at the potential delivery points namely Sawan / Sui.

A. TRANSMISSION PROJECTS (Brief, Need Analysis & Cost Benefit Analysis):

Brief on proposed major transmission projects estimated for meeting escalating gas demand in the country; along with projected investment during the year under review and future projects are as follows:

A.1 NEW PROJECTS/ACTIVITIES

A.1.1 24" DIA X 31 KM PIPELINE FROM SMS KATHORE TO SMS SURJANI

The 24" x 31 Km Transmission pipeline from SMS Kathore to SMS Surjani is required to improve operational efficiency of Western region namely Northern By-Pass Hub Town, Coastal Area of Hawks

Table D-1

SUI SOUTHERN GAS COMPANY LIMITED
STATUS OF MAJOR PROJECTS FY 2016-17 & FY 2017-18(Err)

Bay, Kannup and other Industrial, Commercial and Domestic customers. This pipeline will overcome low pressure problems of the customers in SITE Industrial area and also enhance over-all system flow capacity to 100 MMCFD to cater future gas demand flexibility in the operations of the city area.

This pipeline will also be beneficial for transporting imported LNG gas to tail end of Western Region onwards for meeting the future gas demand.

The above project is essential for enhancing the capacity of Transmission network for Domestic, Industrial / Power Generation & CNG customers.

OGRA earlier allowed Rs 1,139 million in its determination on Err FY 2012-13 for laying of 24" dia 31KM medium pressure pipeline that has now been converted into high pressure Transmission Pipeline. By means of this the flow capacity of this pipeline would be increased.

This project is planned to be commissioned by November 2017 with estimated capitalization of Rs 1,413 million.

A.1.2 QUETTA PIPELINE CAPACITY ENHANCEMENT PROJECT:

Current daily gas supply to Quetta city and surroundings is approximately 135~150 MMcfd from Bhit, Sui and other gas fields. However, the gas requirement trend in last two years shows maximum gas requirement in Quetta city and surrounding areas remained around 170 MMcfd which do not include the gas requirement of Habibullah costal and Quetta Power. Therefore, current cumulative gas requirement of Quetta city and surrounding areas including the aforesaid industrial customers during winters is around 200 MMcfd.

In order to cater the required volumes in Quetta and surrounding areas and aforementioned power plants, the gas molecules are being transported from Bhit & Sui fields via existing 18" dia pipeline with compression at Shikarpur Compressor Station comprises of 02

Table D-1

SUI SOUTHERN GAS COMPANY LIMITED
STATUS OF MAJOR PROJECTS FY 2016-17 & FY 2017-18(Err)

compressors of 120 MMcfd each with only one compressor in operation and other remain standby.

Further, due to the following bottlenecks the gas demand of Quetta & its surroundings is not being fulfilled:

- The maximum flow capacity of existing 18" dia. pipeline is around 120 MMcfd. However, in order to meet the demand, around 145~147 MMcfd gas is being transported through this single line. The above mentioned pipeline is currently operating at its saturation capacity and additional gas throughput results in violation of pipeline design criteria in respect of gas velocity in the pipeline system.
- At present existing 12" dia x 9 Km (KM56 to KM65) & 12" dia x 14Km (KM84 to KM96) high pressure QPL pipeline segments are operating low pressure due to encroachment.
- Compression facilities at Shikarpur are not sufficient to boost Sui/Bhit gas fields' molecules to meet Quetta & surrounding area requirements.

In order to mitigate aforementioned bottlenecks following projects are proposed:

1. 24" dia x 34 Km lopline from Shikarpur to Jacobabad (Rs 1,429 million);
2. Rerouting of existing QPL 12" dia x 9Km (KM56 to KM65) and 12" dia x 14Km (KM84 to KM96) (Rs 550 million); &
3. Installation of Compressor 01 Unit at Shikarpur (Rs 1,100 million).

The construction of above mentioned infrastructure would provide sustainable gas supply and availability of additional capacity gas to meet growing demand of Quetta and surrounding region.

The simulation studies reveal that by implementing abovementioned three (03) countermeasures the Quetta pipeline capacity would enhance from 149 to 181 MMcfd.

Table D-1

SUI SOUTHERN GAS COMPANY LIMITED
STATUS OF MAJOR PROJECTS FY 2016-17 & FY 2017-18(Err)

Construction of 12" x 23Km rerouting project has been initiated by utilizing 12" Mahar project leftover material and 24" x 34Km pipeline project material is under procurement. The project at Sr. # 1 and #2 are expected to be commissioned by August 2017, however installation of new compressor at Shikarpur compressor station is expected to be completed by December 2017.

A.1.3 30" DIA x 125 KM PIPELINE BETWEEN SMS SINDH UNIVERSITY TO SMS PAKLAND (PHASE-I)

The increasing trends in gas supply volume from Naimat Basal, Kausar, Gambat South, KPD gas fields and after completion of RLNG-II dedicated pipeline, Kadanwari, Miano, Latif & Sawan field gas to be transported through ILBP Transmission system.

The limited pipeline capacity in left bank transmission system creating the bottle neck for additional gas volume, and would cause the curtailment of the indigenous gas supply, hence laying of 30" dia x 300 Km transmission pipeline from HQ2(Nawabshah) to Malir would increase the network capacity up to 523 MMCFD and also enhance the operational flexibility as well as integrity of SSGC transmission network.

The pipeline project is divided into three (03) phases as follows:

Pipeline Construction Phase	Segment Planned	Segment Length (KM)
Phase-1	From SMS Sindh University to SMS Pakland	125
Phase-2	From SMS Pakland to Malir	35
Phase-3	From SMS Sindh University to HQ2 (Nawabshah)	140

Phase-1 of laying 30" dia x 125KM pipeline from Sindh University to SMS Pakland with an estimated cost of around Rs 6,966 million is being proposed. Simulation study reveals that with this addition of 30" dia x 125Km pipeline in ILBP system would increase the capacity upto 247

Table D-1

SUI SOUTHERN GAS COMPANY LIMITED
STATUS OF MAJOR PROJECTS FY 2016-17 & FY 2017-18(Err)

MMCFD. Further, the phase-2 of aforesaid project i.e. 30" dia x 35 Km from SMS Pakland to Malir will be carried-out during FY 2018-19. In addition, upon materialising Iran Pakistan Pipeline and other import gas projects, the aforesaid 30" dia pipeline would be further extended from SMS Sindh University to HQ2 (Nawabshah) i.e 140 KM as phase-3 of this project for transporting the additional imported/indigenous gas volumes to downstream cities of Sindh.

The development of aforesaid infrastructure of phase-1 30" dia x 125 Km Loopline SMS Sindh University to SMS Pakland at an estimated cost of Rs 6,966 million would provide sustainable gas supply to meet growing demand of domestic, commercial, industrial and power sector customers.

A.1.4 CHECK METERING FACILITY AT SHAHDADPUR FOR GAMBAT SOUTH FIELD GAS MEASUREMENT:

Check Metering Facility for receiving Gas in SSGC's ILBP System is required at RS-3 (Shahdadpur) for reconciliation of 150 MMCFD gas supplied from PPL "Gambat South" and "Halla" Blocks.

Frontend engineering design (FEED) is in progress; after completion of FEED procurement of required material is in process.

The installation of check metering arrangement is expected to be completed with an estimated amount of Rs 344 Million by December 2017.

A.1.6. RE-ROUTING OF OLD PIPELINES FROM KOTRI/ SUKKUR BARRAGE

S. No.	Project Description	Estimated Cost	Revised Estimated Cost	Expected Completion Date	Remarks
1	16" dia x 9 Km Re-route of Kotri Barrage	Rs. 191 Million	Rs. 191 Million	FY 2017-18	On Existing SSGC's Steel Structure
2	16" dia. x 9 km Re-route of Sukkur Barrage	Rs. 256 Million	Rs. 700 Million	FY 2018-19	HDD
3	18" dia. x 9 km Re-route of Kotri Barrage	Rs. 263 Million	Rs. 750 Million	FY 2018-19	HDD

105

SUI SOUTHERN GAS COMPANY LIMITED
STATUS OF MAJOR PROJECTS FY 2016-17 & FY 2017-18(Err)

The re-routing of above pipeline is needed since these pipeline segments are passing on the barrage structure and due to law & order situation pipelines are exposed and potential security risk to pipeline. Further it is a direct threat to the integrity of barrage and demands to be shifted another suitable re-location.

Re-routing of 16" x 9Km pipeline from Kotri Barrage is expected to be capitalised during FY 2017-18 with given project cost of Rs 191 million.

OGRA has allowed in DERR 14-15 dated 3 July 2014 (Rs 32 million) and DERR 15-16 dated 18 Dec. 2015 (Rs 165 million) for this project.

SSGC has acquired contractor's services for Indus River Crossing of 42"dia RLNG pipeline through advanced trenchless technology (HDD). Based upon satisfactory results of the on-going HDD project, re-routing scheme for the above mentioned transmission pipelines will be conducted. However the capital cost of the project will be increased as mentioned in the above table. Projects at Serial 2 & 3 are expected to be commissioned by June, 2019.

A.1.7 16" DIA ILBP REHABILITATION AND INTELLIGENT PIGGING

The Rehabilitation and Intelligent Pigging (IP) of 16" dia ILBP project was planned under GIREP-I to keep this pipeline operating for another 15-20 years and was approved by Authority vide its letter dated 29 April 2005.

In order to assess the pipeline's internal and external condition in terms of metal loss of the pipe wall, this pipeline was converted to a piggable line in year 2006. This was achieved through installing the pig launching and receiving facilities at appropriate locations after replacement of all main line reduced bore plug valves by full bore ball valves, equal and reducing

Table D-1

SUI SOUTHERN GAS COMPANY LIMITED
STATUS OF MAJOR PROJECTS FY 2016-17 & FY 2017-18(Err)

TEE greater than 6" with guide bar TEE, elbows and nominal band with 1.5D elbows bands etc.

The Intelligent Pigging from HQ-2 to Karachi Terminal (KT) was completed during FY 2010-11 for enhancing the integrity of pipeline and increases its efficiency.

Work on the segment from HQ-2 to Sui for this project was on hold and not resumed because assessment reports for further rehabilitation were required.

The required rehabilitation job has been planned to complete in this current financial year with an amount of Rs 18.87 million and intelligent pigging job is expected to be completed by December 2017, at estimated Cost of Rs 28 million.

This project was allowed by the Authority in DERR 12-13 dated 14 June 2012 with an amount of Rs 131 million.

A.1.8 12" DIA x 344 KM QPL REHABILITATION AND INTELLIGENT PIGGING

The 12"dia x 344 Km Quetta Pipeline (QPL) was constructed and commissioned in 1983-84 for supply of gas to Quetta and en-route towns.

The proposed Rehabilitation of 12"dia x 344 Km QPL involves modification work on 11 number piping set-ups, replacement of reduced bore valve with full bore valves, fabrication and modification of main valve assemblies, fabrication and installation of pig launching and receiving assemblies, removal of MPL drip and installation of scrubbers, filters and controllers etc. The intelligent pigging is proposed to be carried out with the objective of establishing reliability/ integrity of the pipeline and enhance its useful life.

The QPL Rehabilitation job has not been initiated due to law and order situation in project area.

SUI SOUTHERN GAS COMPANY LIMITED
STATUS OF MAJOR PROJECTS FY 2016-17 & FY 2017-18(Err)

Now it has been planned to complete QPL Rehabilitation job and Intelligent Pigging of pipeline in FY 2017-18 with an estimated cost of Rs 328 million.

A.1.9 CONSTRUCTION OF SUBMERGED CROSSINGS IN PLACE OF EXISTING OVERHEAD PIPELINE CROSSINGS DUE TO SECURITY / SAFETY:

As per phase wise security plan agreed at Security Review Conference held in 2004 and keeping in view the current incidents and soft / exposed targets such as overhead pipeline crossings on canals near the sensitive area of Baluchistan and at Sindh. It was agreed to replace such existing overhead pipelines with submerged pipeline crossings under the canal beds and water channels to enhance pipeline security.

In continuation of required measures, in FY 2016-17 and FY 2017-18, total (07) seven crossings were identified and planned to be submerged at estimated CAPEX of Rs 33 million and Rs 93 million respectively. The list of overhead crossing planned to be sub-merged are as follows:

SSGCL Security Plan			
Replacement of Existing Overhead Pipeline crossings with Submerged Crossings			
Crossing to be completed in F.Y. 2016-17			
1	16" dia. KP West (ILBP)	Km122+500	HDD
2	20" dia. Hameer Wah (IRBP)	Km 155+000	T.D.
3	20" dia. Ghar Canal (IRBP)	Km 160+000	T.D/HDD
Crossing to be completed in F.Y. 2017-18			
4	20" dia. Badah Canal (IRBP)	Km 190+000	T.D.
5	20" dia. Damrah Canal (IRBP)	Km 198+000	T.D/HDD.
6	20" dia. Sehar Wah (IRBP)	Km 204+000	T.D.
7	20" dia. Rice Canal (IRBP)	Km 210+000	HDD

A.1.10 UP-GRADATION AND RE-LOCATION OF REGULATION ON 18" & 20" IRBP AT ACPL

Existing regulation set-up at Khadeji is under capacity and do not meet the gas demand. Therefore, Re-location with up-gradation of regulation

Table D-1

SUI SOUTHERN GAS COMPANY LIMITED**STATUS OF MAJOR PROJECTS FY 2016-17 & FY 2017-18(Err)**

set-up at ACPL is needed. This job is expected to be completed during the current fiscal year 2016-17 with an estimated capitalization of Rs. 97 million.

PIPELINE PROJECTS - RLNG

Under existing arrangement as per LSA SSGC is receiving 400 MMCFD RLNG through 42"dia x17Km pipeline from Bin-Qasim to Pakland as per agreement between SSGCL & Engro Elengy Terminal for Storage and Regasification of LNG. However the company is in process of negotiating a further/additional 200MMCFD based upon GoP directives No.I.G-12(68)/2016 dated 25 August 2016. The negotiations are in advance stage and contact is near its finalisation for signing. In the meanwhile GoP has directed to receive additional 200MMCFD from last quarter of LSA year 2 i.e. Jan-17 till to March-17 last year of LSA.

The equivalent energy of RLNG is being delivered to SNGPL by swapping arrangement as per transportation agreement.

All projects under RLNG Phase-I have been commissioned and leftover jobs are in progress except Nitrogen Injection facility. The consultancy service has to be acquired for determination of the technical feasibility of Nitrogen Injection facility in FY 2017-18.

Projects under RLNG-II are in full swing and expected to be commissioned by March, 2017. The project components details are described below in tabular form.

Table D-1

SUI SOUTHERN GAS COMPANY LIMITED
STATUS OF MAJOR PROJECTS FY 2016-17 & FY 2017-18(Err)

Infrastructure Requirement and Cost estimates for 400 MMCFD in Phase-I

Sr No.	Description of Segment	Total Project Cost	FY 2016-17 Capitalization		FY 2017-18 Capitalization	
			KM	Rs. Million	KM	Rs. Million
A	Project-1 (for 400 MMCFD RLNG supply)	Rs. Million				
1	42"dia x 14Km Transmission Pipeline Segment b/w Nara- Sawan	2,239	14	1065	-	133
2	24"dia x 21Km Transmission Pipeline interlink b/w Pakland to Khadeji	995	21	944	-	51
3	Re-furbish and Relocation of Dadu Compressors.	1,400	-	125	-	-
4	Nitrogen Injection facility	5,400	-	-	-	10
5	Mixing Skid, Metering, Regulation Setup at KDJ/Pakland	450		Dropped		
6	Tie-in and Integration arrangement (Land, Civil, Mechanical, Electrical works, Material) at Tie-in point and integration at Pak land	918		479		439
7	Telecom & SCADA Network to monitor the RLNG Injection	45		45		-
	Sub Total for Pipeline Project-1	11,447	35	2,658		633

B	Project-2 (for 1200 MMCFD RLNG supply) 42"dia x 342 KM dedicated pipeline for SNGPL				
Sr No.	Description of Segment	Total Project Cost	FY 2016-17 Capitalization		FY 2017-18 Capitalization
1	42"dia x 14 Km Transmission Pipeline Segment b/w Nara- Sawan		In Phase-1 at S.No.1		
2	42"dia x 82 Km Transmission Pipeline from Nawabshah to Nara.	27,222	342	26,572	649
	42"dia x 131 Km Transmission Pipeline from Hyderabad to Nawabshah.				
	42"dia x 129 Km Transmission Pipeline from Pakland to Hyderabad.				
3	Additional 06 compressor units & extension of facility at Nawabshah (Total 30,000 HP)	8,213	-	8,068	-
	Sub Total for Pipeline Project-2	35,435	342	36,640	145
	Total Project Cost Estimates (A+B)	46,882	377	37,298	794

Table D-1

SUI SOUTHERN GAS COMPANY LIMITED
STATUS OF MAJOR PROJECTS FY 2016-17 & FY 2017-18(Err)

RLNG INFRASTRUCTURE PROJECT PHASE-1

A.1.12 42" DIA X 14 KM TRANSMISSION PIPELINE SEGMENT BETWEEN NARA-SAWAN

42" dia. x 14 Km Transmission Pipeline between Nara-Sawan was initially planned for 20 KM however based on actual survey revised to 14 KM. This pipeline is required to transport RLNG at Sawan being part of SNGPL's shares in LNG import. OGRA through letter Ref: No. OGRA-9(356)/2014-LNG dated 13 November 2014 has already communicated its concurrence for proceeding in this matter. The pipeline has been commissioned in Nov. 2015 with an amount of Rs 1040.6 million. The remaining leftover job including installation of Metering & Filtration arrangement with civil works will be completed by June, 2017 with an estimated amount of Rs 1,069 million furthermore Rs. 133 million is carried forwarded for payment of land for ROW and balance civil work in FY 2017-18.

A.1.13 24"DIA X21 KM TRANSMISSION PIPELINE INTERLINK BETWEEN PAKLAND- KHADEJI

Transmission of RLNG from Indus Left Bank System Pakland to Right bank pipeline system at Khadeji by utilizing 24"dia x21Km pipeline. OGRA through letter Ref: No. OGRA-9(356)/2014-LNG dated 13 November 2014 has already communicated its concurrence for proceeding in this matter.

This pipeline has been commissioned in November 2016 with an amount of Rs 749 million. Remaining leftover civil and mechanical work of Rs 195 million will be undertaken in FY 2016-17. Further Rs. 51 Million is carried over for payment of land for ROW and balance civil work in FY 2017-18.

Table D-1

SUI SOUTHERN GAS COMPANY LIMITED
STATUS OF MAJOR PROJECTS FY 2016-17 & FY 2017-18(Err)

A.1.14 MIXING SKID, METERING, REGULATION SETUP AT PAKLAND / KHADEJI

The Metering, Regulation Setup for mixing was required for RLNG flow to Right Bank or Low BTU indigenous gas flow to Left Bank as well as for commingling with RLNG for its maximum possible consumption at SSGC network. The setup was expected to be commissioned by June 2016 at an estimated project cost of Rs 450 million.

However due to unavailability of Low BTU gas in the SSGC IRBP system the project has been dropped.

A.1.15 METERING FOR RLNG-1 AND ARRANGEMENT FOR FUTURE TIE-IN (2ND TERMINAL) AND OFF TAKE AT CTS BIN QASIM (CUSTODY TRANSFER STATION) INTEGRATION ARRANGEMENT AT PAKLAND.

The arrangement covers:

- i) Check Metering skid (Ultrasonic) installation for RLNG-1 at Tie-in (CTS) Bin Qasim, Valves and Fittings for off take at CTS and inlet Headers for SSGC LNG terminal.
- ii) Necessary integration arrangement for RLNG-1 at existing Transmission Pipeline network at Pakland with 42" dia x 17Km RLNG pipeline header Pakland as per scope of work explained in LNG service agreement (LSA).

The required arrangement is expected to be commissioned by March, 2017 at an estimated cost of Rs 479 million furthermore Rs. 439 Million has been carried-forward for leftover civil works with installation of check metering arrangement for 2nd Terminal in FY 2017-18 .

OGRA through letter Ref: No.OGRA-9(356)/2014-LNG dated 13 November 2014 has already communicated its concurrence for proceeding in this matter.

Table D-1

SUI SOUTHERN GAS COMPANY LIMITED
STATUS OF MAJOR PROJECTS FY 2016-17 & FY 2017-18(Err)

A.1.16 NITROGEN INJECTION FACILITY:

In order to set the calorific value and wobbe index of RLNG at required level for its distribution to end consumers, Nitrogen injection facility would be required. The project has been split into phases, in 1st phase consultant will be hired for determining the required capacity of facility, technical specification of facility, selection of site, the volume of RLNG to be diluted with Nitrogen and the cost for Nitrogen Injection facility. Initially Rs 100 million was proposed in FY 2015-16 for acquiring consultancy service, and in 2nd phase EPC contract would be awarded for detailed engineering, procurement and commissioning of the job, the total estimated amount for Injection facility is around Rs 5,400 Million and expected to be commissioned beyond FY 2017-18.

However keeping in view the recent plan for transportation of full capacity RLNG through dedicated 42" pipeline i.e. 1.2 bcf to the North, the assessment for receiving RLNG shares in SSGC system and the need of Nitrogen Injection Facility are under evaluation, consultancy service may be acquired in FY 2017-18 to determine the technical feasibility of Nitrogen Injection Facility for SSGC System, an amount of Rs10 Million has been earmarked for the purpose.

RLNG INFRASTRUCTURE DEVELOPMENT PHASE-II (342 KM)

For transportation of 1200 MMCFD volumes of RLNG to SNGPL System the requisite infrastructure would be developed as per details given below:

- 42" dia x 342 Km Transmission line between Pakland-Nara
- 42" dia x 14 Km Transmission line between Nara-Sawan (Phase-1) (commissioned in Nov. 2015)

The details about RLNG II transmission projects are discussed below:

A.1.17 42" DIA X 342 Km FROM PAKLAND TO NARA

This project involves laying of 42" dia x 342 Km Pipeline from SMS Pakland to Nara for transporting 1.2 bcf RLNG dedicatedly to SNGPL.

Table D-1

SUI SOUTHERN GAS COMPANY LIMITED
STATUS OF MAJOR PROJECTS FY 2016-17 & FY 2017-18(Err)

The pipeline has been divided into three (03) segments considering the design requirements based on route and population density survey. Details of all three (03) segments are as follows:

The construction activity of 3rd segment 42"dia x 82 Km from Nawabshah to Nara pipeline is expected to be commissioned in FY 2016-17.

The 2nd segment of 42"dia x 131Km from Hyderabad to Nawabshah pipeline has further been divided into two segments for its construction point of view.

- i) 42"dia x 50Km pipeline from Nawabshah to Lundo SSGC in house construction is in progress and is expected to be commissioned in FY 2016-17
- ii) 42"dia x 81Km segment from Hyderabad to Lundo construction job has been outsourced and in progress.

The construction activity in 1st segment of 42" dia x 129Km pipeline from SMS Pakland to Hyderabad is also in progress.

Presently Pipeline 1st & 2nd segments are expected to be commissioned in FY 2016-17.

Total expected amount of capitalization for 42" x 342 Km from Pakland to Nara pipeline would be Rs 26,572 million by June, 2017 furthermore Rs 649 million has been carried-forward to FY 2017-18 for the payment of land and leftover civil works.

A.1.18 COMPRESSION RELOCATION AT NAWABSHAH (HQ-2) FROM DADU

For transportation of indigenous gas volumes in lieu of RLNG-I to SNGPL at required delivery pressure at CTS Sawan Sindh, two compressor units having flow capacity of 120 MMSCFD each from Dadu have been relocated to Nawabshah, HQ-2.

Table D-1

SUI SOUTHERN GAS COMPANY LIMITED
STATUS OF MAJOR PROJECTS FY 2016-17 & FY 2017-18(Err)

The project was initially envisaged to revamp the DR-990 compressor units by enhancing its flow capacity from 120- 200 MMCFD. However it was decided to re-furbish the existing Dadu turbo/compressor by retaining its flow capacity of 120 MMSCFD instead of Revamp.

The above compressor's re-furbishment and Relocation have been completed in Dec. 2015 with an amount of capitalization Rs 991 million. Furthermore the leftover job will be completed in FY-2016-17 with an estimated amount of Rs 125 million.

New Compressor Station at Nawabshah:

With completion of 42" dia x 356Km pipeline (Pakland-Sawan) project for transporting 1.2 bcf RLNG to SNGPL at 1115 psig at Sawan. New Compressor Station comprising Six (6) Units having flow capacity of 200 MMCFD each have been installed at HQ-2 Nawabshah. In which two (02) compressor units have been commissioned in January, 2017 and remaining 04 Units are expected to be commissioned by March, 2017.

Total expected amount of capitalization for New Compressor Project would be Rs 8068 million by June, 2017 furthermore Rs 145 million has been carry forwarded for civil work at residential area in FY 2017-18.

Table D-1

SUI SOUTHERN GAS COMPANY LIMITED
STATUS OF MAJOR PROJECTS FY 2016-17 & FY 2017-18(Err)

UNDER PLANNING PROJECTS

A.1.19 8" DIA x 28 KM PIPELINE FROM AAYSHA GAS FIELD

This project involves laying of 8"dia x 28 Km transmission pipeline to integrate Aaysha Gas field with Badin Gas Pipeline at MVA Golarchi for receiving projected gas supply of 22 MMCFD.

The project would be initiated after firm commitment of gas supply volume from the producer in FY 2017-18 however the Authority is requested to conceptually approve the above project which will require a capital outlay of Rs 491 million. Please note that no amount has been allocated in rate base at current scenario however the project will be considered at the time of mid-year review or FRR.

A.1.20 12"dia x 46Km Loopline from Rehman Gas Field to MVA Niang:

This project involves laying of 12"dia x 46 Km transmission loopline from Rehman Gas field to MVA Niang on Bajara Karachi pipeline for receiving projected gas supply of 90 MMCFD. SSGC is receiving gas under existing EWT arrangements through producer's line which is expected to increase above 40 MMCFD for which a Pipeline network will be required as existing setup cannot supply more than 30-40MMCFD.

The project would be initiated after firm commitment of gas supply volume from the producer in FY 2017-18 however the Authority is requested to conceptually approve the above project which will require a capital outlay of Rs 1,132 million. Please note that no amount has been allocated in rate base at current scenario however the project will be considered at the time of mid-year review or FRR.

Table D-1

SUI SOUTHERN GAS COMPANY LIMITED
STATUS OF MAJOR PROJECTS FY 2016-17 & FY 2017-18(Err)

A.1.21 Sibi Compressor Revamp:

Keeping in view the sustainability in gas supply and increasing demands of Quetta city and en-routed areas of Baluchistan, the revamping of existing compressor is under consideration. Two compressor units are available at Sibi Compressor Station, the rated flow capacity of each unit is 60MMCFD, which would be increased from 60 MMCFD to 120 MMCFD.

The project is expected to be completed by June 2018 with an estimated cost of Rs 1,100 million. The possibility for installation of 01 New Compressor unit having upto 200 MMCFD flow capacity at Sibi compressor station instead of Revamping of both compressors is also under technical and financial analysis this option is expected to be completed with an estimated cost of Rs 1,100 million.

A.1.23 Pipeline Projects – RLNG-III:

The RLNG-III pipeline project for provision of additional 1.2 BCFD capacity pipeline discussed in a meeting chaired by the Minister for Petroleum & Natural Resources on 6 Jan 2017. It was decided that considering the diminishing domestic gas supply sources, increasing demand of gas/RLNG and upcoming LNG terminals for import of LNG, there is an immediate need for development of 1.2 BCFD pipeline capacity from Karachi (tie-in-point) to Lahore which is directed to be completed before 1 October, 2018 vide letter No. NGII-16(3)/16RLNG-IPP dated 30 January, 2017.

In the light of the above, both gas utility companies i.e. SNGPL & SSGC were advised to coordinate and initiate immediate necessary action. Both the Companies are under initial stage of evaluating the project, devising feasibility studies and performing engineering survey. Accordingly, RLNG III project will be offered for determination to the Authority separately as soon as the details are finalized along with necessary approvals.

Table D-1

SUI SOUTHERN GAS COMPANY LIMITED
STATUS OF MAJOR PROJECTS FY 2016-17 & FY 2017-18(Err)

DISTRIBUTION PROJECTS (Need Analysis & Cost Benefit Analysis):

**B.1. 16" DIA X 7.5 KMS SUPPLY MAIN HYDERABAD FOR RE-ALIGNMENT
OF EXISTING 10" DIA TWIN SM (FROM HQ-3 - TBS LAHORE ROAD)**

Existing 10" dia twin supply mains Hyderabad are more than 50 years old. Due to the passage of time the earth cover on supply mains became over and above the 10 ft. specially in the residential areas of Qasimabad. The coating condition of the pipeline is also not found satisfactory and at such a high depth recoating is not possible. Also it is encroached at different locations by the H.D.A water filter plants and the residential houses. It is therefore necessary to replace the old pipeline for safety and easy accessibility to carry out any maintenance work, if required. A section from TBS Lahore Road up to TBS Shah Makki has already been realigned in 2010-11 due to encroachment and by realignment of this remaining portion the entire supply main system shall be completely accessible along the road section.

At present, in peak winter season these supply mains are being operated above 100 psig pressure. In recent past, load at these twin supply mains has been increased and further development in the area is continued and in near future a huge load of housing societies is expected. Keeping in view, the physical condition of the pipelines, further increase in the pressures would not be safer/ desirable. As mentioned above we cannot put further load on the supply mains and increase system pressures to avoid any mishap.

Furthermore, the Qasimabad area needs reinforcement due to rapid increase in housing schemes and a section from Marvi Town up to TBS Lahore Road (Laid in the green belt) shall be utilized as low pressure supply main system by operating it in reverse flow from TBS Lahore road. This low pressure supply main system will be operated through step-down pressure management system at already installed TBS Qasimabad, TBS Gulistan Sajjad and TBS Bhitai Town. Hence

118

SUI SOUTHERN GAS COMPANY LIMITED
STATUS OF MAJOR PROJECTS FY 2016-17 & FY 2017-18(Err)

the cost of reinforcement trunks being required to cater the increasing load requirement of Qasimabad shall be saved.

B.2. 12" DIA X 26.5 KM SUPPLY MAIN TANDO ALLAHYAR

Existing 8" dia Supply Main Tando Allahyar, laid in 1979, covers Tando Allahyar, Nasarpur & various en-route villages including CNG/Industrial customers. In 1988, this supply main had been further extended up-to Mirpurkhas measuring 32 Kms. Presently, Supply Main Tando Allahyar is feeding gas to 4 towns & 135 villages comprising of 41,200 domestic, 230 commercial and 25 CNGs/Industrial customers. Supply main capacity has been exhausted, so it is being operated at higher pressures. This proposal is meant to meet the gas demand of the Tando Allahyar, Mirpurkhas, en-route villages & CNGs and also to operate the system at optimum pressures.

In phase-I, reinforcement of Supply Main Tando Allahyar (Upto Naseer Canal) measuring 31 Kms was proposed in F.Y 2011-12 & reinforcement of 27 Kms from Tando Allahyar (Naseer Canal) to Mirpurkhas was planned in Phase-II. In due course of time, work on widening of Hyderabad-Mirpurkhas Road had been started by Provincial Highway Department and our existing 8" dia supply main (from Naseer Canal to Mirpurkhas) came under metalled portion of the new road. In view of above, relocation of this portion of supply main in 12" dia measuring 27 KM in length has been taken-up & commissioned in February 2012, wherein the proportionate cost of 8" dia pipe has been recovered from Sindh Government and balance amount has been arranged by SSGC.

Subsequent to the commissioning of 12" dia supply main from Tando Allahyar to Mirpurkhas, supply pressure has been reduced from 210 psig to 150 psig. Currently, against 150 psig SMS pressure, we

Table D-1

SUI SOUTHERN GAS COMPANY LIMITED
STATUS OF MAJOR PROJECTS FY 2016-17 & FY 2017-18(Err)

receive 12 psig at tail end i.e. Mirpurkhas while CNGs are open and 80 psig when CNGs are closed.

The initial 27 Kms pipeline (from SMS Palijani to Tando Allahyar) is 8" dia which is feeding gas to two pipelines i.e. 8" dia & 12" dia, up to Mirpurkhas. During peak hours of Domestic & CNG load, gas withdrawal at tail end is maximum hence velocity of the gas is increased to cause turbulent flow which results in malfunctioning of regulators & meters.

In FY 2013-14 similar project with estimated length of 31Kms at an estimated cost of Rs 446 million was envisaged, the same was allowed by OGRA at a reduced cost of Rs 282 million however the project could not be executed in FY 2013-14. Based on actual survey the length of the segment has been revised to 26.5 Kms; being expected to be commissioned in F.Y. 2017-18 at an estimated cost of Rs 378 million. Length of existing 8" dia line is about 26.5 Kms, mostly laid across agriculture land while 12" dia line is proposed mostly along the road.

Table D-1

SUI SOUTHERN GAS COMPANY LIMITED
STATUS OF MAJOR PROJECTS FY 2016-17 & FY 2017-18(Err)

C. LPG AIR-MIX PROJECTS

C.1. LPG AIR-MIX PROJECTS IN BALOCHISTAN AND SINDH

MP&NR has directed SSGC to install 30 LPG Air Mix Plants in FY 2017-18 in its franchise areas. The total estimated cost of these LPG Air Mix Plants is Rs 16.6 Bln. The Company will undertake the projects only if borrowing from commercial banks is available under sovereign guarantee of GoP.

The above estimated cost is not kept in the Budget for FY 2017-18. Apart from above, the Company is installing LPG Air-Mix Plants at Awaran and Bela through own resources. These planst are expected to be functioning in June 2017.

The Ministry further advised that all 30 plants are to be installed immediately. The Ministry advised SSGC to carry out these project through its own resources and requested Ministry of Finance for arranging soft-term/commercial loan of PKR 10 Billion from financial market under sovereign guarantees at competitive interest rate for a tenure of 10 years. Out of these 30 locations, 27 Nos. have been surveyed while the survey of remaining is in process. During fiscal year 2017-18, work on 10 numbers of plants will be undertaken while 4 Nos. are expected to be capitalised during the said year. However these projects would be separately submitted to OGRA through review petition/FRR petition.

Sr. No.	Location	Capacity in MMBTU/ hr	Cost in Rs. Million		
			Distribution Network	Other than GDS	Total
1	Zibob	50	264	315	579.0
2	Qila Saifullah	50	242	315	557.0
3	Loralai	50	198	315	513.0
4	Kharan	50	377	315	692.0
5	Keetch	50	122	315	437.0
6	Khuzdar	50	335	314	649.0
7	Panjgor	50	303	315	618.0
8	Chagi	50	299	315	614.0
9	Uthal	50	137	315	452.0
10	Winder	50	110	315	425.0
Total					5,536.0

Table # D-1.1

S. No.	DESCRIPTION OF SEGMENT	FY 2016-17 Revised		FY 2017-18 ERF	
		KMs	Gross Capitalization (Rs. Million)	KMs	Gross Capitalization (Rs. Million)
a	12" Dia x 46 KMs Pipeline from Rehman Field to Naing MVA				
b	08" Dia x 28 KMs Pipeline from Ayesha Gas Field			Conceptual Approval required	
1	Refurbishment/ Revamp of HQ-Sibi Compressor				1,100.200
2	30" dia x 125 Km Pipeline from SMS Sindh University to SMS Pakland (1st segment)			125	6,966.761
3	Check Metering Facility at Shahdadpur for Gambat South Field Gas Measurement (RS3)				344.358
4	16" dia x 9 km Re Route of Kotri Barrage			9	191.001
5	16" dia ILBP Rehabilitation & Intelligent Pigging		18,866		28.095
6	12" dia x 344 Km QPL Rehabilitation and Intelligent Pigging				328.262
7	Construction of Sub-merge Crossings				125.742
8	Up-gradation and re-location of regulation on 18" & 20" IRBP at ACPL		97.339		
9	Permanent metering setup installation for POGC installation for POGC line at Naing Valve assembly (leftover in 17-18)		123.000		12,912
10	6" DIA x 22 KM Sajawal Gas Field Integration Project - Leftover		3.000		
11	24" dia x 33 Km Tando Adam Masu Loop Line Project		40.000		
12	DR 990 Gas Turbine 35,000 Hours Major Overhaul Engine S/No: 626-201-005		245.000		
13	Replacement of Unit Valves (Suction, Discharge, Pressurizing, Vent, Recycle & Non-Return) of DR-990 Compressors at HQ-3 Compressor Station		26.000		
14	24" dia x 31 Km from SMS Kathore to SMS Surjani (ACPL Surjani) [earlier in 15-16 was Distr Project]			31	1,412.617
15	24" dia x 34 Km loopline from Shikarpur to Jacobabad			34	1,428.517
16	Rerouting of existing QPL 12" dia x 9Km (KM56 to KM65) and 12" dia x 14Km (KM84 to KM96) (Total 23 Kilometers)			23	549.811
17	New Compressor at Shikarpur to Jacobabad for QPL		21.000		1,100.200
18	12" dia x 53 km Mchur Gas Field Integration Project (MGFIP) at Thari Mohabat - leftover				188.742
19	6" Nur Bagla - leftover		5.000		
20	SSGC's Transmission Pipeline Right of Way (ROW)				1,100.200
21	Repair of DR 990 Turbo Compressor Rotor (Capacity 120 MMSCFD)				
22	DR 990 Turbo Compressor Rotor (Capacity 120 MMSCFD)				
23	DR-990 Gas Turbine 35000 hours Overhaul Engine S/No: 655-201-001				281.000
RLNG PROJECTS					
Ph-1					
24	42" dia x 14 Km (Ph-1) loop between Nara - Sawan (Leftover in 2016-17 & 2017-18)	14	1,065.099		133.289
25	24" dia x 21 Km interlink b/w Pakland to Khadjeji (Leftover in 2017-18)	21	944.000		50.571
26	Re-Furbishment/Relocation of Dadu Compressor		25.000		
27	Tie-in and integration arrangement - from tie-in point 2 to Pakland (Leftover in 2017-18)		479.000		438.956
28	SCADA/Telecom network to monitor RLNG Injection		5.000		
Ph-2					
29	42" dia x 342 Km (Ph-2) - from Pakland to Nara & Indus River Crossing (Leftover in 2017-18) (Rs 649 million in FY 2017-18 for land and building)	342	26,572.000		
30	Additional 06 Compressor units & extension of facility at Nawabshah (Total 30,000 HP)		8,068.430		160.970
31					
	Sub-total RLNG	377	37,298.535		767.786
	Total - Transmission	377	37,886.740	222	15,051.876

Table # D-1.1

SUI SOUTHERN GAS COMPANY LIMITED
CAPITALIZATION DETAILS

DISTRIBUTION PROJECTS

S. No.	DESCRIPTION OF SEGMENT	FY 2016-17 Revised		FY 2017-18 ERF	
		KMs	Gross Capitalization (Rs. Million)	KMs	Gross Capitalization (Rs. Million)
1	16" dia x 7.5 Kms Supply Main Hyderabad for Re-alignment of existing 10" dia Twin SM (from HQ-3 - TBS Lahore Road)		-	7.5	255.019
2	12" dia x 26.5 Kms Supply Main Tando Allahyar		-	26.5	378.300
3	Normal Expansion	356.7	1,102.430	727.9	4,201.184
4	New Towns & Villages	161.6	448.560	162.8	609.514
5	Rehabilitation Mains & Services (UFG Reduction Program)	135.8	848.760	697.0	1,339.224
6	Meters		2,474.930	-	-
7	UFG Reduction Program - Segmentation		-	-	236.000
Total - GDS		654.1	4,874.680	1,621.7	7,019.241
GRAND TOTAL GTPL & GDS		1,031.1	42,761.420	1,843.7	22,071.117

**SUI SOUTHERN GAS COMPANY LIMITED
TECHNICAL DATA
TRANSMISSION PROJECTS FY 2017-18**

Table # D-2.1

S. No.	DESCRIPTION OF SEGMENT	Diameter (Inch)	Wall Thickness (Inch)	Length (Km)	U/S Pressure (psig)	D/S Pressure (psig)	Pipe Grade API-5L	Proposed Capacity (MMCFD)
1	42" X 342 ph-II Km Independent pipeline from Pakland to Nara with Compressor Station at Nawabshah and Khadeji	42	0.562-0.625-0.812	342	1,200	1,115	X-70	1,200
2	24" dia x 21 KM interlink b/w Pakland and Kotri Barrage b/w HQ-3 to Sind University Project	24	0.469	21	1,163	1,131	X-70	200
3	16" dia x 9 Km Re-route of Pipeline to SMS Pakland	16	0.375	9	750	730	X-52	-
4	30" dia x 125 Km SMS Sindh University to MVA- Naing	30	0.526"/4.469"	125	664	542	X-70	247
5	12" dia x 46 Km Pipeline from Rehman Gas Field to MVA- Golachi	12	0.281	46	1,130	660	X-60	120
6	8" dia x 28 Km Pipeline from Ayesha Gas Field to MVA- Golachi	8	0.250	28	845	790	X-42	20
7	24" dia x 34 Km Shikarpur-Jacobabad loopline	24	0.469	33	1,100	1,090	X-70	30*
8	24" dia x 31 ACPL to Surjani	24	0.469	31	585	570	X-60	100

* 24"dia x 34 Km from Shikarpur to Jacobabad Loopline proposed design capacity is 30MMCFD subject to completion of 12" x 23Km QPL Loopline project completion.

Table # D-2.1

**SUI SOUTHERN GAS COMPANY LIMITED
TECHNICAL DATA
MAJOR DISTRIBUTION PROJECTS**

Table # D-2.2

Table:

S. No.	DESCRIPTION OF SEGMENT	Diameter (Inch)	Wall Thickness (Inch)	Length (Km)	U/S Pressure (psig)	D/S Pressure (psig)	Pipe Grade	Proposed Capacity (MMCFD)
1	12 " Dia x 26.5 KM supply main Tando Allahyar	12	0.250	26.5	150	80	API-5L Grade B	14
2	16" x 7.5 Km Supply Main Hyderabad for realignment of existing 10" Twin Supply Mains (From HQ3 - TBS Lahore Road)	16	0.25	7.5	150	130	X-32	42

Table # D-3.1

SUI SOUTHERN GAS COMPANY LIMITED
GENERAL DATA

TRANSMISSION PROJECTS FY 2017-18

S.No.	DESCRIPTION OF SEGMENT	PROJECT COST		Need Assessment	Cost Benefit Analysis	% Completion (if applicable)	Implementation Schedule	
		Total Cost	Material				Starting Date /Status	Commissioning Date
1	42" X 342 ph-II Km Independent pipeline from Pakland to Nara with Compressor Station at Nawabshah	27,222	16,512	Dedicated pipeline for transportation of RLNG upto 1200 MMCFD to North Pakland and Khadejji	Fast track supply of RLNG will meet gas shortage of country and increase gas sales.	50%	Ongoing	March, 2017
2	24" dia x 21 KM interlink b/w Pakland and Khadejji	995	741	It is required for transportation of RLNG on fast track basis.	Fast track supply of RLNG will meet gas shortage of country and increase gas sales and profitability.	85%	Commissioned	Nov, 2016
3	12" dia x 344 Km QPL Rehabilitation and Intelligent pigging	328	88	Required for establishing reliability/integrity of pipeline.	will increase pipeline effective life.	15%	Ongoing	June 2018
4	24"dia x 24Km Shikarpur - Jacobabad Loopline	1,429	1,059	This pipeline would help in increasing the QPL pipeline capacity upto 30 MMCFD	It will help in sustainable gas supply to Habibullah Costal Power.	25%	Ongoing	August, 2017
5	24"dia x 31Km Kathor Surjani Pipeline	1,413	1,025	This pipeline is required to transport additional gas upto 100 MMCFD to Surjani for further distribution to Hub & SITE Industrial Area.	This pipeline would help in increasing Company's sale and reduce e/pressure drop problem in SITE area.		Under Planning	Nov, 2017
6	16"dia x9Km Re route of Kotri Barrage	191	113	Due to Security concern re route is required to divert old non pigable pipeline from Barrage.	will save from sabotage activities.		Under Planning	June 2018
7	30" dia x 125 Km SMS Sindh University to SMS Pailand	10,993	6,884	This pipeline is required to transport additional gas to be received from Naimat, Gambat South & KPD field plus after completion of RLNG dedicated pipeline swapping volume would also be transported through this pipeline.	This pipeline would help in increasing Company's sale and reduce energy shortage in the country.		Under Planning	June 2018
8	12"dia x 46 Km Pipeline from Rehaman Gas Field to MVA- Naing	1,132	743	To receive upto 90MMCFD gas from Rehaman Gas Field into SSGC IRBP system	This pipeline would help in increasing Company's sale and reduce energy shortage in the country.		Under Planning	June 2018
9	8"dia x 28 Km Pipeline from Ayesha Gas Field to MVA- Golarachi	491	283	To receive upto 20MMCFD gas from Ayesha Gas Field into SSGC BGFP system	This pipeline would help in increasing Company's sale and reduce energy shortage in the country.		Under Planning	June 2018

SUI SOUTHERN GAS COMPANY LIMITED
GENERAL DATA
MAJOR DISTRIBUTION PROJECTS

Table # D-3.2

S. No.	DESCRIPTION OF SEGMENT	PROJECT COST		Need Assessment	Cost Benefit Analysis	% Completion (if applicable)	Implementation Schedule	
		Total Cost	Material				Starting Date	Commissioning Date
1	16" P Supply Main Hyderabad for realignment of existing 10" P Twin Supply Mains (From HQ3 - TBS Lahore Road)	255.0	112.2	This project is needed to increase the system load and pressure due to the deteriorating condition of the existing infrastructure and rapid increase in housing schemes	This would help overcome pressure problem and enhance overall system flow capacity in system operation in the area and reduce UFG.			Jan-18
2	12 " Dia x 26.5 KM supply main Tando Allahyar	378.350	214.680	Existing 8" dia supply main is being operated at higher pressures. The supply main capacity has been exhausted. This proposal is meant to segregate the gas distribution system of Tando Allahyar and Mirpurkhas as well as to meet the gas demand of the areas.	Due to lengthy Supply Main (SM) covering huge number of customers of Tando Allahyar, Mirpurkhas and seroute villages it is being operated on higher pressure and more load can not be added on the existing SM. By this proposal system will be segregated and beneficial for further extension of gas to the towns and villages beyond Mirpurkhas.			Jan 2018

Table D-4.1

**TRANSMISSION PROJECTS
COST BREAK-UP**
30" dia 125 KM Pipeline From sms Sindh University to SMS Pakland

S.No.	DESCRIPTION	Project Cost	Rs. Million	
			30" x 125Km FY 2017-18	Cost
1	Linepipe	5,842.00	4,200.00	
2	Valves & Fittings	400.00	250.00	
3	Joint Coating Material	60.00	35.00	
4	Welding Electrodes	60.00	30.00	
5	Cathodic Protection	24.00	10.00	
6	Instruments & Metering	250.00	250.00	
7	Grit Blast material	6.00	6.00	
8	Filter and Separators	140.00	140.00	
9	Pigging equipment	40.00	40.00	
10	Misc. Inventory Expenses	-		
11	Inland Transportation	65.00	40.00	
	Sub-Total	6,887.00	5,001.00	
12	Land Acquisition & Survey	125.00	80.00	
13	Damages Compensation & Rental	40.00	35.00	
14	Route & Topographic Survey	11.00	11.00	
15	Design Engg. & Project Mgt.	14.00	8.00	
16	Welding Inspection	35.00	30.00	
17	Mill Inspection	20.00	12.00	
18	EAR Insurance	60.00	40.00	
19	Pipeline Construction	1,600.00	900.00	
20	Civil works	90.00	75.00	
21	Cold cut and integration	3.00	2.00	
22	Indus River Crossing	900.00		
	Sub total	9785.00	6194.00	
	Interest on borrowing @7.73%	721.91	463.06	
	Contingencies @5%	489.10	309.70	
	GRAN DTOTAL	10,996.01	6,966.76	
	Length of Pipeline	160.00	125.00	
	Per Km Cost	68.73	55.73	

Table D-4.2

TRANSMISSION PROJECTS
COST BREAK-UP
16" dia. x 9 km Re Route of Kotri Barrage

S.No.	Description	Cost	Rs. Million	
			FY 2016-17	FY 2017-18
1	Survey	1.00	0.70	0.30
2	Land Acquisition	8.00	5.60	2.40
3	Damages compensation and rental	4.00	2.80	1.20
4	Line Pipe	91.00	63.70	27.30
5	Joint Coating Material	1.00	0.70	0.30
6	GirtBlastMaterial	0.01		0.01
7	Welding Electrodes	1.50	1.05	0.45
8	Valves & Fittings	2.74	1.92	0.82
9	Cold Cut / Hot Tapping	2.00		2.40
10	Inland Transportation	2.00	1.40	0.60
11	Design Engineering & Project Mgt	8.82	6.00	2.82
12	Pipeline Construction	35.00	10.00	25.00
13	Civil Works	5.00		5.00
14	Gas Losses	2.50		2.50
15	Welding Inspection	2.50		2.50
16	Mill Inspection	0.50		0.50
17	EAR Policy	2.00	1.00	1.00
18	Interest Capitalised 7.73%	169.57	94.87	75.10
19	Contingencies @ 5%	13.11	7.00	5.54
	GRAN DTOTAL:	191.16	106.61	84.39
	Length of Pipeline	9		
	Per Km Cost	21		

Table D-4.3

**TRANSMISSION PROJECTS
COST BREAK-UP**
24" dia X 31 KM Pipeline From ACPL , Kathore- Surjani

S.No.	DESCRIPTION	Cost	Rs. Million
			FY 2017-18
1	Lineline	810.00	810.00
2	Valves & Fittings	50.00	50.00
3	Joint Coating Material	6.50	6.50
4	Welding Electrodes	4.00	4.00
5	Cathodic Protection	8.00	8.00
6	Instruments	55.00	55.00
7	Grit Blast material	1.50	1.50
8	Filter and Separators	40.00	40.00
9	Pigging equipment	10.00	10.00
10	Meter regulator and control valve	-	-
11	Misc. Inventory Expenses	-	-
12	Inland Transportation	40.00	40.00
13		Sub-Total	1,025.00
14	Land Acquisition & Survey	43.00	43.00
15	Damages Compensation & Rental	20.00	20.00
16	Route & Topographic Survey	5.00	5.00
17	Design Engg. & Project Mgt.	5.00	5.00
18	Welding Inspection	5.00	5.00
19	Mill Inspection	1.00	1.00
20	EAR Insurance	6.00	6.00
21	Pipeline Construction	120.00	120.00
22	Civil works	25.00	25.00
23	Cold. cut and integration	2.00	2.00
24	Depreciation of Construction Equipments	-	-
25		Sub total	1257
	Interest on borrowing @8%	92.77	92.77
	Contingencies @5%	62.85	62.85
	GRAN DTOTAL	1,412.62	1,412.62
	Length of Pipeline	31	31
	Per Km Cost	46	45.57

Table D-4.4

TRANSMISSION PROJECTS
COST BREAK-UP
24" dia x 34 KM loop line from Shikarpur to Jacobabad

S.No.	DESCRIPTION	Cost	Rs. Million	
			FY 2016-17	FY 2017-18
1	Linepipe	901.78	631.78	270.00
2	Valves & Fittings	35.00	25.00	10.00
3	Joint Coating Material	6.50	4.00	2.50
4	Welding Electrodes	6.00	4.00	2.00
5	Cathodic Protection	8.00		8.00
6	Instruments			-
7	Grit Blast material	2.00	1.50	0.50
8	Hot Tapping Material			
9	Pigging equipment			
10	Meter regulator and control valve	15.00	10.00	5.00
11	Material Direct Supply	15.00	10.00	5.00
12	Inland Transportation	70.05	40.00	30.05
	Sub-Total	1,059.33	726.28	333.05
13	Land Acquisition & Survey	20.00	5.00	15.00
14	Damages Compensation & Rental	10.00	10.00	
15	Route & Topographic Survey	5.00	5.00	
16	Design Engg. & Project Mgt.	5.00	3.00	2.00
17	Welding Inspection	5.70	3.00	2.70
18	Mill Inspection	0.50	0.50	
19	EAR Insurance			
20	Pipeline Construction	10.00	4.00	6.00
21	Civil works	120.00	40.00	80.00
22	Cold cut and integration	30.00		30.00
23	Depreciation of Construction Equipments	2.00	1.00	1.00
	Sub total	1267.53	797.78	469.75
	Interest on borrowing @9.432%	97.90	58.74	39.16
	Contingencies	63.280	39.95	23.33
	GRAN DTOTAL	1,428.71	896.47	532.24
	Length of Pipeline	34		
	Per Km Cost	42.02		

Table D-4.5

131

TRANSMISSION PROJECTS
COST BREAK-UP
12" dia x (9+14) KM Rerouting of existing OPL

S.No.	DESCRIPTION	Cost	Rs. Million	
			FY 2016-17	FY 2017-18
1	Linepipe	275	98	177
2	Valves & Fittings	30.00	5.00	25
3	Joint Coating Material	3.00	1.00	2
4	Welding Electrodes	2.50	0.50	2
5	Cathodic Protection			-
6	Instruments			-
7	Grit Blast material	1.00		1
8	Hot Tapping Material			-
9	Pigging equipment			-
10	Meter regulator and control valve			-
11	Misc. Inventory Expenses			-
12	Inland Transportation	25.00		25
13	Land Acquisition & Survey	Sub-Total	336.50	104.50
14	Damages Compensation & Rental		15.00	15
15	Route & Topographic Survey		10.00	5
16	Design Engg. & Project Mgt.		2.00	-
17	Welding Inspection		2.00	0.50
18	Mill Inspection		1.50	0.50
19	EAR Insurance		0.50	0.50
20	Pipeline Construction		5.00	1.00
21	Civil works		92.00	32.00
22	Cold cut and integration		20.00	20
23	Depreciation of Construction Equipments		2.00	2.00
		Sub total	486.50	148.00
	Interest on borrowing @9.432%		37.61	10.89
	Contingencies @5%		25.880	9.000
	GRAN DTOTAL		549.99	167.89
	Length of Pipeline		23	
	Per Km Cost		24	

Table D-4.6

TRANSMISSION PROJECTS
COST BREAK-UP
42" dia x 14 KM loop between Nara-Sawan

S.No.	DESCRIPTION	Cost	Rs. Million	
			FY 2016-17 Cost	FY 2017-18 Cost
1	Linepipe	968.89	250.00	-
2	Valves & Fittings	186.48	126.00	-
3	Joint Coating Material	25.88	6.93	-
4	Welding Electrodes	6.09	2.00	-
5	Cathodic Protection	8.00	8.00	-
6	Instruments	321.78	322.00	-
7	Grit Blast material			-
8	Filter and Separators	115.00		-
9	Pigging equipment	26.63	15.00	11.63
10	Meter regulator and control valve			-
11	Misc. Inventory Expenses	5.44		-
12	Inland Transportation	22.85	8.00	-
	Sub-Total	1,687.04	852.93	11.63
13	Land Acquisition & Survey	40		40
14	Damages Compensation & Rental	15	0.65	10.00
15	Route & Topographic Survey	3.05	3.00	-
16	Design Engg. & Project Mgt.	4.76	4.00	-
17	Welding Inspection	3.42	3.42	-
18	Mill Inspection	0.09	0.09	-
19	EAR Insurance	12	12.00	-
20	Pipeline Construction	283.54	60.00	36.98
21	Civil works	34.92	8.96	20
22	Cold cut and integration			-
	Sub total	2,083.82	945.05	118.61
	Interest on borrowing @7.73%	97.520	69.53	8.75
	Depreciation of Construction Equipments	3.78	3.78	-
	Contingencies @5%	53.840	47.00	5.93
	GRAN DTOTAL	2,238.96	1,065.36	133.29
	Length of Pipeline	14		-
	Per Km Cost	159.93		-

SUI SOUTHERN GAS COMPANY LIMITED
PROJECT COST BREAK-UP
24"DIA x 21 KM Transmission Pipeline Interlink b/w Pakland-Khadeji

Table D-4.7

S.No.	DESCRIPTION	Cost	Rs. Million	
			FY 2016- 17	FY 2017- 18
1	Material			
2	Line Pipe	650.00	650.00	-
3	Valve & Fittings	49.00	49.00	-
4	Joint Coating Material	6.00	6.00	-
5	Grit BlastMaterial	1.00	1.00	-
6	Welding Electrodes	5.00	5.00	-
7	Pigging Equipment	0.41	0.41	-
8	Meter Regulator and control valve	15.00	15.00	
9	Cathodic Protection	8.00		
10	Misc. Inventory Expense	3.73	3.73	8.00
11	Inland Transportation	2.50	2.50	-
12	Survey	Sub-Total	740.64	732.64
13	Land Acquisition & Crop Compensation		4.00	4.00
14	Design Engg. & Project Management		42.10	24.00
15	Overhead		3.00	3.00
16	Mill Inspection		-	-
17	Welding Inspection		1.00	1.00
18	EAR Insurance		4.00	2.00
19	Pipeline Construction		6.00	6.00
20	Cold Cut & Int. by Ops.		125.00	115.00
21	Gas Losses		1.00	1.00
22	Civil Work		18.00	10.00
23	Interest on Loan		39.26	35.94
24	Contingencies		10.93	8.68
25	Depreciation of Construction Equipment		1.68	1.68
	GRAND TOTAL		994.93	943.94
25	Length of Pipeline		21	50.57
26	Per Km Cost		47	

**TRANSMISSION PROJECTS
COST BREAK-UP**
42" dia 342 KM Pipeline From Pakland -Nara (Ph-II)

Table D-4.8

S.No.	DESCRIPTION	Cost	Rs. Million	
			FY 2016-17	FY 2017-18
1	Linopipo	14,819.64	14,819.64	
2	Valves & Fittings	550.00	549.76	
3	Joint Coating Material	185.00	185.00	
4	Welding Electrodes	64.78	64.78	
5	Cathodic Protection	22.00		
6	Instruments	450.00	450.00	22.00
7	Grit Blast material	5.00	5.00	
8	Filter and Separators	220.00	220.00	
9	Pigging equipment	91.00	91.00	
11	Misc. Inventory Expenses	34.30	34.30	
12	Hot tapping Material	10.00	10.00	
13	Inland Transportation	60.00	60.00	
14		Sub-Total	16,511.72	16,489.48
15	Land Acquisition & Survey	340	140.00	22.00
16	Damages Compensation & Rental	150	119.54	200.00
17	Route & Topographic Survey	8.78	8.78	30.46
18	Design Engg. & Project Mgt.	50	45.00	—
19	Welding Inspection	190	170.00	20.00
20	Mill Inspection	3.38	3.38	
21	EAR Insurance	125	125.00	
22	Pipeline Construction	6100	6,100.00	
23	Indus River Crossing	1600	1,600.00	
24	Civil works	400	100.00	300.00
25	Cold cut and integration	4	4.00	
26	Depreciation of Construction Equipments	4.21	4.21	
		Sub total	25487.09	24909.39
	Interest on borrowing	1,152.650	1,110.03	577.46
	Contingencies	582.150	553.28	42.62
	GRAN DTOTAL	27,221.89	26,572.70	28.87
	Length of Pipeline	342.00		648.95
	Per Km Cost	79.60		

Table D-4.9

DISTRIBUTION ACTIVITIES
PROJECT COST BREAK-UP
12" DIA x 26.5 KM SEGMENT OF SUPPLY MAIN TANDO ALLAHYAR

DESCRIPTION	Cost
1. Material	
Line Pipe	117.510
Pipe Fittings and Valves & Joint	Sleeves
Coating & Wrapping	29.380
Cathodic Protection	62.100
Inland Transportation	2.750
	2.940
	Sub-Total
	214.680
2. Land Acquisition & Crop Compensation	3.400
3. Overhead/ Direct Departmental Cost	76.770
5. Pipeline Construction	28.090
6. SMS Installation	53.140
7. Railway/ Highway Crossing Charges	2.270
8. Contingencies	
GRAND TOTAL	378.350
Length of Pipeline	26.500
Per Km Cost	14.277

Table D-4.10

16"Ø x 7.5 KM SUPPLY MAIN HYDERABAD
ESTIMATED PROJECT COST

S.No.	DESCRIPTION	(Rs. in million)
1	Material	
	Line Pipe	61.113
	Pipe Fittings, Valves & Joint Sleeves	15.278
	Welding Electrodes	0.540
	Coating & Wrapping	25.775
	Cathodic Protection	3.000
	Gas Odorising Unit	5.000
	Inland Transportation	1.528
		Sub-Total
2	Overhead/Direct Departmental Cost	112.234
3	Welding Inspection/Radiography	43.920
4	Mill Inspection	1.200
5	Pipeline Construction	1.000
6	Civil Works	15.000
7	Hot Tapping, SMS Construction & TBS Installation	8.500
8	Highway Crossing / Road Cutting Charges	55.000
9	Contingencies	6.323
		GRAND TOTAL
		255.019
	Length of Pipeline (Kms)	7.5
	Per Km Cost	34.003

Table # D-5

**SUI SOUTHERN GAS COMPANY LIMITED
GAS DISTRIBUTION SYSTEM - ADDITION
SUMMARY OF ACTIVITIES**

S/N ^a	Description	FY 2017-18 Estimated Revenue Requirement Period			
		ERR FY 2016-17	Projected Capitalization	Need Assessment	Cost Benefit Analysis
		% age	Completion	Date of Commissioning	
1	Rehabilitation Mains and Services UFG Control Program				
2	Segmentation	2,547	1,311		
	Sub Total: UFG Control Program	578	236		
3	Laying of Distribution Mains including services-Existing Areas	3,125	★ 1,547		
4	Installation of New Connections (meters)	2,158	2,165		Ongoing
5	Replacement /Repair of Undersized Meters	649	650		Ongoing
6	Modems, Installation of EVC, Filter Separators,Etc	2,058	1,177		Ongoing
7	Construction of CMSS, TBSS, and TRSS, / Cathodic Protection	445	348		Ongoing
8	New Towns	643	246		Ongoing
	Sub Total: Normal	486	610		Ongoing
	GDS OTHER THAN MAJOR PROJECT:				Ongoing
9	12 " dia x 26.5 KM Tando Allahyar Supply Main	6,439	★ 5,196		
10	20" Dia x 7 KM Distribution Main from Desalination Plant DHA Phase VIII to Dolman Mall Clifton	378,300	378,300		
11	16" dia 7.5 KM Supply Main Hyderabad	315,553			
	Sub Total: Major Distribution Projects		255,000		
	Total Distribution System	694	633,300		
	★ Estimated capitalization for FY 2017-18 is Rs. 6,385.9 Million	10,257,192	7,375,691		

Please refer Table: D-3.2

**DISTRIBUTION MAINS AND SERVICES - INCLUDING EXTENSION IN EXISTING AREAS, REINFORCEMENT
REHABILITATION PROGRAM, AND SERVICES**

Table # D-5.1

Steel Mains Diameter (inches)	FY 2014-15 (Actual)			FY 2015-16 (Actual)			FY 2016-17 (ERR)			FY 2017-18 (Petition)		
	Length (Km)	Cost in Rs. Million	Material Cost	Length (Km)	Cost in Rs. Million	Material Cost	Length (Km)	Cost in Rs. Million	Material Cost	Length (Km)	Cost in Rs. Million	Material Cost
12	4.4	51.2	11.7	3.2	44.8	13.9	-	-	-	3.00	24.10	8.0
8	15.5	103.4	6.7	27.8	135.9	4.9	56.2	271.5	4.8	44.70	163.04	3.6
6	8.7	49.3	5.0	11.9	31.2	2.6	109.4	308.1	2.8	74.09	202.62	2.7
4	21.7	73.3	3.4	59.4	107.1	1.8	124.6	225.5	1.8	153.49	264.77	1.7
2	82.9	119.3	1.4	138.7	130.1	0.9	182.2	166.1	0.9	231.40	170.66	0.7
1	17.2	11.5	0.7	204.9	92.0	0.4	21.5	12.4	0.6	11.99	10.86	0.9
3/4	347.1	164.8	0.5	535.8	170.4	0.3	219.4	122.1	0.6	111.00	104.04	0.9
	497.5	566.8	1.1	981.6	711.6	0.7	713.3	1,104.8	1.6	629.7	940.1	1.5
Poly Mains Diameter (mm)	FY 2014-15 (Actual)			FY 2015-16 (Actual)			FY 2016-17 (ERR)			FY 2017-18 (Petition)		
	Length (Km)	Cost in Rs. Million	Material Cost	Length (Km)	Cost in Rs. Million	Material Cost	Length (Km)	Cost in Rs. Million	Material Cost	Length (Km)	Cost in Rs. Million	Material Cost
180	16.4	49.2	3.0	25.0	52.7	2.1	85.5	206.8	2.4	67.5	147.9	2.2
125	29.5	41.9	1.4	36.7	38.2	1.0	207.6	199.6	1.0	122.1	129.1	1.1
63	118.6	51.3	0.4	167.0	64.7	0.4	680.0	198.6	0.3	282.0	76.5	0.3
40	17.9	2.8	0.2	76.7	15.3	0.2	26.1	2.5	0.1	45.6	4.8	0.1
20	105.2	26.5	0.3	158.9	21.1	0.1	467.7	312.4	0.7	335.4	197.3	0.6
GDS	287.6	171.7	0.6	464.4	192.6	0.4	1,467.0	920.0	0.6	852.6	557.5	0.7
New Towns	285.0	857.2	3.0	329.7	1,222.0	3.7	185.0	486.1	2.6	162.8	609.6	3.7
Total	1,070.0	1,595.8	1.5	1,775.7	2,126.2	1.2	2,365.3	2,511.8	1.1	1,645.1	2,107.2	1.3
Other Costs												
Dept. cost		483.0										
Construction Cost		474.5										
Transportation		1,567.1										
TBS/TRS/CPS		656.3										
Meter Stations		4.3										
Segmentation		10.4										
Modems, Installation of EVC,		65.6										
Filter Separators, Etc		2,165.5										
Total Other Cost		2,716.5										
		3,334.8										
		3,923.3										
		445.0										
		5,637.6										
		4,635.2										

138

139

SUI SOUTHERN GAS COMPANY LIMITED
DISTRIBUTION DEVELOPMENT
ADDITIONAL METERS (NEW CONNECTIONS)

Table # D-5.2

Connection Category	ERR FY 2016-17						Physical Target (Regionwise)						FY 2017-18 Projection						
	Karachi			Sindh			Balochistan			Karachi			Sindh			Balochistan			
	Units	Cost/Unit in PKR	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	
Industrial	24	1,446,188.6	7	1,446,188.6	1	1,446,189	28	645,335.8	7	645,335.8	2	645,335.8	-	-	-	-	-	-	
Commercial	110	43,887.4	55	43,887.4	262	43,887	72	95,505.1	24	95,505.1	288	95,505.1	-	-	-	-	-	-	
Domestic-Normal	50,063	2,508.8	42,205	3,906.8	11,635	3,907	55,075	2,508.8	46,426	3,906.8	12,799	3,906.8	-	-	-	-	-	-	
Total	50,202	-	42,267	-	11,898	-	55,175	-	46,457	-	13,089	-	-	-	-	-	-	-	
New Connections - Cost Details																			
Region		ERR FY 2016-17						FY 2017-18						Region					
Karachi		Units	Rs. Million	Karachi	Units	Rs. Million	Balochistan	Karachi	Units	Rs. Million	Sindh	Balochistan	Total	Karachi	Units	Rs. Million	Balochistan	Total	
Sindh		50,202.0	165.1	Sindh	42,267.0	177.4	Balochistan	Sindh	46,457.0	163.1			13,089.0	13,089.0	13,089.0	13,089.0	13,089.0	13,089.0	
Balochistan		11,898.0	58.4	Total	104,367.0	401.0		Balochistan	114,721.0	430.1			247,667	DDC	247,667	DDC	247,667	DDC	
Total		-	-		-	-		Total	114,721.0	430.1			648,638	Total	648,638	Total	648,638	Total	

Table # D-5.2

Table # D-5.3

SUI SOUTHERN GAS COMPANY LIMITED

DISTRIBUTION DEVELOPMENT

REPLACEMENT OF INDUSTRIAL AND COMMERCIAL METERS

Connection Category	ERR FY 2016-17				Physical Target (Regionwise)				FY 2017-18 Petition			
	Karachi		Sindh		Balochistan		Karachi		Sindh		Balochistan	
	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees
Industrial	464	779,579.9	84	779,579.9	-	779,579.9	-	-	-	-	-	-
Commercial	1,365	44,832.9	395	44,832.9	315	44,832.9	2,000	81,167.3	714	59,755.5	350	84,250.8
Domestic	99,000	5,729.4	38,000	5,729.4	15,000	5,729.4	224,500	2,508.8	74,000	3,906.8	23,000	3,906.8
Total	100,829	-	38,479	-	15,315	-	226,500	-	74,714	-	23,350	-

Region	ERR FY 2016-17		FY 2017-18	
	Units	Rs. Million	Units	Rs. Million
Karachi	204,265	719.3	226,500	725.6
Sindh	74,795	357.8	74,714	331.8
Balochistan	24,310	114.6	23,350	119.3
Total	303,370	1,191.6	Total	324,564 1,176.7

Meter Repair & Replacement Cost Details

151

SUI SOUTHERN GAS COMPANY LIMITED
DISTRIBUTION DEVELOPMENT
TBS, TRS, PRS, AND CP STATIONS etc.

Table: D-5.4

Description	Cost in Rs. Million											
	FY 2016-17						FY 2017-18 Petition					
	Karachi			Sindh			Balochistan			Karachi		
	Units	Per Unit Cost	Total Cost	Units	Per Unit Cost	Total Cost	Units	Per Unit Cost	Total Cost	Units	Per Unit Cost	Total Cost
<u>New Addition</u>												
Dist. Zones/APMS on TBS												
TB Stations	15	1.20	18.00	-	-	-	5	1.20	6.00	15	1.20	18.00
TR Stations				-	-	-						
PR Stations	14	0.30	4.20	6	0.30	1.80	50	0.30	15.00	30	0.20	6.00
CP Stations/TEG	-	-	-	-	-	-	-	-	-	-	1	0.90
Total New Addition	29	-	22.20	6	-	1.80	55	-	21.00	45	-	24.00
<u>Modification</u>												
New distribution zones												
TB Stations	25	1.07	26.63	13	1.07	13.85	4	1.07	4.26	15	1.07	15.98
TR Stations												
PR Stations												
CP Stations/TEG	-	-	-	6	1.00	5.97	-	-	-	-	-	-
Total Modification	25	-	26.63	19	-	19.82	4	-	4.26	15	-	15.98
Total	54	-	48.83	25	-	21.62	59	-	25.26	60	-	39.98
	Total cost for FY 2016-17						95.70	Total cost for FY 2017-18			67	-
											245.84	

REV. / ERR PETITION FY 2015-16 ERR PETITION 2016-17

**D-5.5
SINDH**

No.	Village Name	No. of Villages	Total Area	Gross	Open	Flood	Urban	Rural	Total G.O.T.
1	Ali Mohammad Mullah, Haj Uman Soomro & Haj Kaim Soomro	3.0	7.8	176.0	-	13.6	13.6	7.8	-
2	Dodo Khan Maro	1.0	4.3	48.0	-	7.1	7.1	4.3	-
3	Umar Sand, Mai Khan Thabo, Mitlo Mirat & Ibrahim Shah	4.0	23.5	683.0	-	38.7	38.7	23.5	-
4	Lund Jaffer, Khan Chutto	6.0	18.1	33.0	-	31.4	31.4	18.1	-
5	Ibrahim Khaskell, Nisaboo Bhogna	2.0	7.2	203.0	-	11.6	11.6	7.2	-
7	Mohammed Uman Jaho	1.0	1.3	89.0	-	1.7	1.7	1.3	-
8	Haji Hidayatullah Arain	1.0	1.7	66.0	-	1.9	1.9	1.7	-
9	Mareesbad	1.0	1.4	21.0	-	2.4	2.4	1.4	-
10	Mohammad Usman Rajpar	1.0	2.4	50.0	-	4.6	4.6	2.4	-
11	Ghulam Rasool Lakhio	1.0	0.8	18.0	-	0.8	0.8	0.4	-
12	Shorito & Nurch, Kaloti Barro, Fajir M. Pathi & Kandri	1.0	2.0	11.0	-	4.6	4.6	0.8	-
13	Chintoo Ji Manji	5.0	29.4	330.0	-	41.6	41.6	29.4	-
14	Nihao Maher & Raza Muhammad Larki	1.0	5.4	66.0	92	9.2	-	5.4	-
15	Ali Mamad Chandro	2.0	1.2	21.0	22	2.2	-	1.2	-
16	Mohabbat Shahi Butchari	1.0	0.8	24.0	1.2	1.2	-	0.8	-
17	Shahzai Zareeri	1.0	0.9	7.8	14	1.4	-	0.9	-
18	Shahzai Zareeri	1.0	2.2	24.0	3.8	3.8	-	2.2	-
19	Punjani Chandro	1.0	2.0	36.0	4.0	4.0	-	2.0	-
20	Zulfikarabad	1.0	0.7	67.0	-	1.3	-	0.7	-
21	Dedupur	1.0	1.3	76.0	-	1.8	-	1.3	-
22	Haseeb Chandio, Sidiquababud and Shahzai	1.0	1.4	247.0	-	23.5	-	1.4	-
23	Ch. Motirol Hussain	3.0	9.6	310.5	-	12.5	-	25.5	-
24	Ch. Nasir Ahmed	1.0	1.6	16.0	-	3.2	-	1.6	-
25	Syed Baland Shah, Azimullah, Mitho Rind & Emaniso Kalboro	1.0	1.0	21.0	-	2.1	-	1.0	-
26	Sain Bux Chandro	1.0	1.0	217.0	-	19.4	-	19.4	-
27	Sarto & Nitreh	1.0	0.7	10.0	-	1.2	-	1.0	-
28	Tulkratho	2.0	9.1	340.5	-	15.4	-	12.0	-
	RKC	1.0	14.0	518.5	-	26.7	-	15.4	-
	DDC	-	-	-	-	-	-	9.1	-
	ERR 2017-18:							26.7	14.0
1	Shadi Khan Chandro & Chakdar Khan Chandro	2.0	9.8	406.0	-	24.7	-	-	-
2	Haji Meekon Khan Rind	1.0	1.8	94.0	-	4.3	-	-	-
3	Sime Muhammand Jamali	1.0	1.0	49.0	-	3.4	-	-	-
4	Syed Kuchi Bux Shah	1.0	2.5	121.0	-	5.7	-	-	-
5	Nawzeed Bux	1.0	3.8	130.0	-	8.3	-	-	-
6	Gandhra & Macdi	2.0	1.0	36.0	-	2.6	-	-	-
7	Shakhs Tayab	1.0	1.4	137.0	-	3.3	-	-	-
8	Bukhtiar Brohi & Sohbat Brohi	2.0	2.7	142.0	-	6.4	-	-	-
9	Babuher Prahwar (Remaining part of Teljo Panhwar)	2.0	2.0	181.0	-	4.4	-	-	-
10	Dad Lebari	1.0	1.0	284.0	-	18.6	-	-	-
11	Ali Bux Chandro	1.0	1.0	112.0	-	6.3	-	-	-
12	Din Muhammad Dharejo	1.0	1.0	300.0	-	2.0	-	-	-
13	Sarang Khan Jagi	1.0	1.0	74.0	-	3.6	-	-	-
14	Fajimoco	1.0	1.0	75.0	-	27.5	-	-	-
15	Khatri Rabo & Kheili Kundi	1.0	1.0	705.0	-	32.2	-	-	-
16	Arista Coloy	1.0	1.0	98.0	-	3.6	-	-	-
17	Ghulam Mustafa Lander	2.0	1.4	72.0	-	3.6	-	-	-
18	Choudary Mohsin & Anjum	1.0	1.0	112.0	-	6.4	-	-	-
19	Noor Muhammad Shar / Hajji Gul Bajg Khan Shar	1.0	1.0	7.8	2.3	-	-	-	-
20	Mirri Khan Solangi	1.0	1.0	24.0	-	2.3	-	-	-
21	Deng Beji Malghzi	1.0	2.0	36.0	1.5	4.6	-	-	-
22	Ura Khashabali	1.0	5.3	135.0	6.9	15.3	-	-	-
23	Selau Nahiyoon	3.0	4.6	87.0	5.6	6.2	11.8	-	-
24	Gul Mohammad Burfat	1.0	1.3	98.0	3.0	3.0	-	-	-
25	Gul Mohammad Goseang	3.0	3.4	33.0	5.0	3.2	-	-	-
26	Abul Waleed Gopang	3.0	1.3	232.6	7,553.1	48.3	453.1	501.4	21.9
27	Batali Gowang	1.0	1.0	422.3	-	-	-	-	-
28	Jam Khan Zar dari	1.0	1.0	444.2	-	-	-	-	-
	Total Shadhi	81.0	-	-	-	-	-	-	-
								163.9	26.4
								10.3	6.6

RENEWABLE ENERGY VILLAGES PETITION FY 2016-17 FEE BRIEF

RE: NEW EBRB PETITION EX 2016-17 EBRB BETHLEHEM 32017 12

D-5.5

No.	Name	Gender	Age	Religion	Address	Land Area (sq.m)	Plot No.	Block	Surveyor	Area (sq.m)	Rate (Rs.)	Total Amount (Rs.)	Challan No.	Date
1	Killi Sofuzai, Killi Sircia Utemrat, Killi Bahadur Khan Tora Shah, Hajji Muhammed Aam, Killi Haideri, Killi Shabaz / Killi Sircia Sabiawazi & Killi Badani, Killi Karan Zai Muhibullah, Mehbullah Muhammad Hussain, Qila Hajji Peer Muhammadi Manzaki, Killi Syed Wajid Baigud Baad Road & Killi Baad o Shaikh Ritali Band Road	M	8	16.1	173.4	32.8				32.8	16.2	520.96		
2	Qila Syed Mando Jan & other	M	1	F	0.6	9.0				1.4	1.4	1.4	0.6	
	ERB 2017-18													
3	Ensayat Ulukh Karez	M	1	M	177.5	124.0								
4	Iermati Hameer Rehmati Jamil	M	1	M	0.8	9.0								
5	Gharibro Abd Jarrati Israe Mohammad	M	1	M	1.7	18.0								
6	Mujbi Khan Jamali Mohibat Shahik	M	1	M	1.5	15.0								
7	Khair Mohamed Leghari	M	1	M	0.5	18.0								
8	Jalal Shahik & Das Mohommadi Nawara Kirbir Shahik	M	2	M	7.9	94.0								
9	Gholam Hussain Khan	M	1	M	0.2	2.0								
10	Mohibullah H. Motiullah Khan Jamali	M	1	M	0.1	3.0								
11	Momtaz Ali Sibbooni Jamali	M	1	M	0.6	3.0								
12	All Riazain Major Mohabat Shahik	M	1	M	2.3	12.0								
13	Safullah Jamali Bihwal K. Ferari & Mohibullah Shahik	M	3	M	2.3	19.0								
14	Lol Khan Wadiami Khan	M	1	M	1.3	4.0								
15	Gulam Khan Rind Dandakia	M	1	M	1.1	3.0								
16	Mohibullah Khan & A. Fasih Rind Mohibullah Shahik	M	2	M	2.5	13.0								
	Balechitaran Total		9	F	16.6	182.4				34.2	34.2	116.6	366.6	
	Slund		83	F	23.6	7,555.1				48.3	48.3	42.3	444.2	168.4
	Grand Total		92	F	249.2	7,737.5				48.3	48.3	53.6	487.3	185.0

Sui Southern Gas Co. Ltd.
Details of Construction Equipments
For FY 2017 - 18

Table# D-6.2

Sui Southern Gas Company Limited
Detail of Motor Vehicles
For F.Y 2017 - 18

Table# D-6.3

S/N	Description	Projected Cost Rs.	Additional Units	Replacement Units	Total No. of Units	Unit Cost Comparison Data	Ref. Year	FY	FY	Need Assessment	Rs. In Million	
											Cost Benefit Analysis	Cost Benefit
1	Cars - Suzuki Cultus 1000CC	70,000	23	27	50	2015-16	1,051	1,400	1,400	1. Enhancement of UFG reduction oriented activities and expansion in Transmission and Distribution Network	The acquisition of proposed vehicles will facilitate the company to meet OGRA prescribed Service & Performance Standards. Frequent breakdown of old vehicles would be avoided, which will result in enhanced reliance on available resources and improve efficiency.	
2	Cars - 1300CC	49,450	9	14	23	2015-16	1,855	2,150	2,150	2. Provision of connections to new customers in the existing areas, new towns and villages of Sindh and Balochistan.		
3	Cars - 1800CC	30,500	7	4	11	2015-16	2,360	2,773	2,773	3. Beefing up surveillance & monitoring		
4	Hi-Roof Van 800cc	14,450	1	16	17	2015-16	0,698	0,850	0,850	4. The replacement of old vehicles which have become redundant has also been proposed during F.Y 2017-18. The old vehicles have become uneconomical and due to frequent breakdowns are badly affecting efficiency.		
5	Hiace Van	27,900	1	5	6	2015-16	4,239	4,650	4,650	5. Allocated Cars are purchased by outgoing/retiring Executives as per service rules, additional cars have been budgeted for prospective promotions.		
6	Pick-up 4x2 (D/S Cabin)	175,820	8	67	75	2015-16	1,927	2,344	2,344	6. Out of 372 vehicles, 203 vehicles (excluding 152 M/Cycles) are operational while only 17 vehicles are non-operational; 220 vehicles (excluding 152 M/Cycles) are replacement of old uneconomical vehicles.		
7	Pick-up 4x4 (D/S Cabin)	118,700	4	26	30	2015-16	3,525	3,957	3,957			
8	Pick-up 800cc	46,960	-	60	60	2015-16	0,647	0,783	0,783			
9	Truck/ Trucks-Plain	30,000	2	1	3	N/A	N/A	N/A	10,000			
10	Trackers (Vehicle Tracking Systems)	10,200			+	N/A	N/A	N/A	-			
11	Long Chasis Pickup 4x4 with 50 Gallon capacity tank for odorant oil	6,000	1	-	1	N/A	N/A	N/A	6,000			
12	Motor Cycles	21,090	151	152	303	2015-16	0,042	0,070	0,070			
13	Body Fabrications (Pickups S/C, Pickup 800cc, Motor Cycles)	3,450	-	-	-	N/A	N/A	N/A	-			
GRAND TOTAL		604,520	207	372	579							

SUI SOUTHERN GAS COMPANY LIMITED
DETAILS OF VEHICLES (OPERATIONAL & NON-OPERATIONAL)
PETITION 2017 - 18

Table# D-6.3.1

S#	OPERATIONAL VEHICLES	ADD.	REP.	Rs. In Million
				TOTAL
1	Cars - Suzuki Cultus 1000CC	-	10	14.000
2	Cars - 1300CC	9	14	49.450
3	Cars - 1800CC	4	4	22.400
4	Hi-Roof Van 800cc	1	16	14.450
5	Hiace Van	-	5	23.250
6	Pick-up 4x2 (D/S Cabin)	8	67	175.820
7	Pick-up 4x4 (D/S Cabin)	4	26	118.700
8	Pick-up 800cc	-	60	46.960
9	Truck/ Trucks-Plain	2	1	30.000
10	Trackers (Vehicle Tracking Systems)			10.200
11	Long Chasis Pickup 4x4 with 50 Gallon capacity tank for odorant oil	1	-	6.000
12	Motor Cycles	151	152	21.090
13	Body Fabrications (Pickups S/C, Pickup 800cc, Motor Cycles)			3.450
Sub-Total Operational (A)		180	355	535.770
<hr/>				
NON-OPERATIONAL VEHICLES				
1	Car 1000 cc	23	17	56.000
2	Car 1800 cc	3	-	8.100
3	Hiace Van	1	-	4.650
Sub-Total Non-Operational (B)		27	17	68.750
Grand Total (A+B)		207	372	604.520

Sui Southern Gas Company Ltd.
Detail of Land
For F.Y 2017 - 18

Table#D-6.4

NO.	DESCRIPTION	Amount Rs in million	Need / Justification
1	Acquisition of Land for 06 New CP Stations	0.600	Land Required for 3 Nos New CP Stations (Hyd/N'shah).
2	Acquisition of Land for 5 New CP Stations	0.800	Land required for 05 new CP Station (Sukkur)
3	Land for proposed CP Stations	1.000	For new C.P Stations to be installed in F.Y 2017-18 for protection of distribution network in Balochistan region.
4	Acquisition of Land for 10 New CP Stations	1.500	Land Required for 10 New CP Stations (SITE).
5	Acquisition of Land for 6 New CP Stations	0.900	Land Required for 6 Nos New CP Stations (Hyd/N'shah).
6	Acquisition of Land for 6 New CP Stations	0.900	Land Required for 6 New CP Stations (Sukkur/Larkana).
7	Acquisition of Land for 6 New CP Stations	0.900	Land Required for 6 New CP Stations (Quetta).
8	Land acquisition for RLNG Project 42" dia x 338 KM from Nara to Sawan	269.950	Acquisition of land for RLNG Project
Total		276.550	

Sui Southern Gas Company Ltd.
Details of Buildings
For F.Y 2017 - 18

Table # D-6.5

S No.	Description	Revenue Petition Rs Million	Need / Justifications
1	Re-construction of boundary wall of MVA Settarja at MP-121	0.805	Existing Boundary wall is in deteriorated condition and may collapse therefore re-construction is required.
2	Modification of T-4 Quarters	1.120	Condition of T-4 Quarters is worse & requires major rectification work in order to maintain the company's asset. The quarters are more than 50 years old.
3	Construction of Care taker Rooms	1.350	Care Taker Rooms Required for Security guards at <ul style="list-style-type: none"> 1. SMS Saleh Pat 2. V/A Hassan Gas field 3. OHC MP-122 DIS 4. OHC MP-93 1/4 U/S
4	Construction of T-5 Quarters	9.750	The existing Quarters are beyond economical repairs and are almost at road level therefore new quarters are required in place of existing quarters and also due to the increase in staff at HQ after installation of 08 nos compressors related to RLNG Project.
5	Modification of T-4 Quarters	4.480	Condition of T-4 Quarters is worse & requires major rectification work in order to maintain the company's asset. The quarters are more than 50 years old.
6	Re-carpeting of HQ-3 internal roads	4.200	Existing road is in worse condition, sunked and bumpy, therefore re-carpeting of road is required.
7	Modification of Boundary wall around HQ (Phase-2)	3.000	The boundary wall is badly damage due to the water logging in the area at many places. Plaster is badly flaking. In order to maintain company's asset, the job is required.
8	Re-construction of boundary wall enclosure at SMS Garello & RS-Larkana	4.200	Existing Boundary wall is in deteriorated condition, tilted and may collapse therefore re-construction is required.
9	Re-construction of Boundary wall at HQ	4.550	Existing Boundary wall is in deteriorated condition, tilted and may collapse therefore re-construction is required.
10	Recarpeting of road inside HQ & Compressor area	4.200	Existing road is in worse condition, sunked and bumpy, therefore re-carpeting of road is required.
11	Rehabilitation of Sewerage system	4.200	The existing sewerage system is very old, the sewerage lines are choked & the manholes are damaged therefore rehabilitation of sewerage system is required
12	Caretaker Room / Guard room alongwith verandah	2.025	Room required for caretakers because no room is available for caretakers, therefore 03 no. rooms are required at IBLP MPL i.e. MP-334 CPS, MP-339 1/2 U/S Thaddio Nala, By Pass, MP-320 OHM crossing, MP343 1/2 CPS and 03 no. rooms are proposed at IRBP MPL i.e. KMP-378 CPS, KMP-404 CPS, & KMP-391 CPS.
13	Construction of new Care Taker rooms	2.025	Rooms are required caretakers due to the installation of new solar system & V/A at KMP-364, Karchat KMP-370 , OH Aril II KMP-311 , Sim Nala 20' dia MPL KMP-320 & Joni shakha KMP-228
14	Modification of electrical shop , mechanical shop & metering shop	1.025	Condition of shop is very worse, deteriorated and requires major rectification work in order to maintain the company's asset. <ul style="list-style-type: none"> More than 30 years old
15	Rehabilitation of Sewerage system	4.200	The existing sewerage system is very old, the sewerage lines are choked & the manholes are damaged therefore rehabilitation of sewerage system is required
16	Reflooring at HQ-Sui	1.000	Floor condition is deteriorated and requires

Table # D-6.5

Sui Southern Gas Company Ltd.
Details of Buildings
For F.Y 2017 - 18

S No.	Description	Revenue Petition Rs Million	Need / Justifications
17	Construction of Care taker Rooms	3.240	Care taker rooms are required at KMP-125, 168, 246 & 253.
18	Construction of new boundary wall at MVA Dadhar 12'6"dia/18" and 20"dia HQ Sibi	2.400	MVA is in open area therefore enclosure is required due to worse law and order condition in the area.
19	Raising of boundary wall at HQ (Phase - 3)	2.000	Required from security point of view & due to worse law & order situation in the area
20	Modification of T-3 Bungalows	7.000	Condition of bungalow is worse & requires major rectification work in order to maintain the company's asset.
21	Construction of caretaker room at MVA Abegum	1.080	Required for caretaker at Abegum from security point of view.
22	Paver flooring in Industrial Area	0.396	The existing floor of Industrial area is damaged, it needs to be replaced with pavers which is more durable as compared to CC flooring.
23	Construction of 02 Office Rooms, 02 Halls & Washroom	13.500	The current Store building at Nawabshah Headquarter HQ-2 is decaying and dilapidated with leaky roof. This facility is absolutely inadequate for storage of parts for the Compressors to be installed at Nawabshah for LNG. Therefore approval and construction of requisite store building is needed on priority basis at HQ-2 Nawabshah owing to upcoming LNG related activities..
24	Construction of boundary wall	2.000	The proposal is for extension in Stores' building to cope the material storage and handling requirement in view of installation of upcoming eight additional compressors at HQ-2.
25	Construction of open platform and paver path	2.000	The proposal is for extension in Stores' building to cope the material storage and handling requirement in view of installation of upcoming eight additional compressors at HQ-2.
26	Renovation of Power House at HQ-2	1.000	Existing condition of power house wall and floors are in worst condition so Good house keeping is urgently required. These power houses are not suitable for operation of high rating generators.
27	Renovation of RS Golarchi building	1.500	The roof is deteriorated and walls have been affected by seepage as such renovation is urgently required.
28	Approach Path to RS Killi and Razor wire deployment	1.500	The approach path is deteriorated as such making it difficult for vehicle to reach inside repeater station. Also for the safety & security, the razor wire are urgently required on boundary walls.
29	Construction of Watch Towers	4.000	10 x HQ-2.
30	Road Barrier	0.150	Required for HQ-Sibi.
31	Construction of Double Story Bldg., at Sandspit Beach 2 Bed room attached Bath room, Kitchen, Drawing/ Dining Area with Boundary wall.	7.000	Existing structure is 15 years old and has been damaged because of climate.
32	Renovation of I&EM Department situated in car parking basement head office Karachi.	3.000	The last renovation was done in the year 2007-08.
33	TBS Room / Cage	7.500	To provide safety and protection to valuable installation.
34	Construction of RCC Roof at Union Office size 29' x 51' with corridor pilers & beam.	1.500	Cracks Appear on roof for heads urgent repairing
35	Renovation of Wash rooms (Staff Washroom)	0.600	Condition of Washroom are very bad required complete renovation

150

Sui Southern Gas Company Ltd.
Details of Buildings
For F.Y 2017 - 18

Table # D-6.5

S No.	Description	F.Y 2017-18 Revenue Petition Rs Million	Need / Justifications
36	Renovation of Wash Rooms (Executive Wash Room)	0.900	Condition of Washroom are very bad required complete renovation
37	Renovation of 02 Rooms at K.T	1.000	Renovation of 02 Rooms adjacent Recovery K.T Section
38	Construction of Floor/ other civil work at Bin Qasim Power Plant - KE	10.000	Construction of Floor is required at Bin Qasim Power Plant - KE
39	Modification / renovation of MRS building at KT. (Wash room, reception counter, false ceiling at domestic testing section, plantation, Tower lights for MRS boundary wall).	0.800	MRS building is more than ten years old and require replacement of aluminum windows & doors with vertical blinds Existing wash rooms are more than ten year old and completely deteriorated, therefore immediate renovation work is required. MRS building is more than ten years old and require repainting from both interior & exterior.
40	Construction of D.I shop	2.500	DI shop acts as Quality gate of Service related items. The current shop is located in Distribution SITE and it needs a facelift in terms of civil and mechanical construction.
41	Construction / Up-gradation of Sports ground at KT.	10.000	Required for construction / upgradation of sports ground at Health & Recreation Centre KT.
42	Construction of Workshop / stores	2.475	At present 5 no. stores are available at Regional office Hyderabad. The additional workshop/stores are required for Re-enforcement, Maintenance, ERC, Transport, A&S & Distribution departments.
43	Wall raising of Amenity plot at Regional office	1.800	Required to protect Store & regional office premises.
44	Construction of CP Rooms (RCC Room)	1.050	Hyderabad & Nawabshah = 03 for Cathodic protection of unprotected underground pipeline.
45	Internal Paint & Tiling work of Meter Repair Shop Building	0.600	Meter Repair Shop building with respect to deteriorated color and without tiles looks awkward condition. In view of HSE policy and to spruce up the office / building, the provision of white wash and floor tiling is being kept.
46	Floor Tiling work with paver bricks and Concrete at remaining Space at Pipe Yard Sukkur. Total 4200' Sqft	3.000	For Smooth movement of vehicles / Machinery and Good House keeping.
47	Glaized Tiling work of both floors of RO Building (Except new commercial building)with Dismanteling of existing floor tiling.	2.000	As the existing floor tiling is 25 years old .
48	Floor Tiling work with paver bricks on foot path at rear side street of Canteen and Store at RO Sukkur Measuring 4'-x-210' Sqft	0.570	For Good Housekeeping and proper security purpose.
49	Up gradation and tiling work along with protection Iron Grill of Existing Main Road side boundary wall of RO Sukkur. Size 100'x8'*2'	1.000	For Security and front side beautification
50	Uplifting of front Elevation of RO Building along with replacing of existing old iron windows with Aluminum . Measuring 110'x22'	3.000	The Good looking of SSGC Building. As the existing Construction is 25 years Old..
51	Construction of 05 Room/Civil Work & Other	2.000	For Cathodic Protection of unprotected under ground pipeline
52	Construction of RCC supported boundry wall with barbed wire & Gate	2.250	At present there is no segregation wall Between Stores and Distribution Office Sukkur which often creates difficulties in separating Store materials with Distribution materials. Boundary wall is needed to secure materials within premises of Store location.

Sui Southern Gas Company Ltd.
Details of Buildings
For F.Y. 2017 - 18

S No.	Description	Revenue Petition Rs Million	Need / Justifications
53	Regional Office Building N'Shah	5.000	For consultancy
54	Renovation of Sub Zonal Office Building Sajjhoro (02 Nos,Rooms Maintenance /02 Nos.)	2.000	Sub zonal office Sajjhoro is Company's own building have 04 Nos rooms, 02 washrooms requires 02 Nos rooms + 02 Nos washrooms maintenance/02 Nos. renovations
55	Visitor's Motor Car / Motor Cycle Parking Shed with Dadex Sheets and platform with Pever tiling B/W both Main Gates external Side of RO	1.500	No parking shade for vehicles and motor cycles is available for the visitors of Regional Office Larkana. Therefore, parking shade shed with Dadex sheets and Plate-form with paver tiling is required to be carried out in between eastern side of R.O Larkana.
56	One Room 15' x 15' for placing material and record for distribution	0.720	Room required for distribution material / record
57	Two Rooms for Officer & Staff of Transport Section & one workshop /Garage	2.000	Two rooms required for executive and staff and one garage / workshop for transport section larkana
58	Construction of Boundary wall for Mastung Plat.	2.205	Mastung plot is being encroached.
59	Renovation of Regional Office Building Outlook and Wash Room repairs , Pavers Inside Office Building	2.000	Renovation of Wash Rooms.
60	Executive & Staff office with separate partitions.Two Executives and four staff members. (Adjacent to existing office room)	2.800	As per instructions of management in the year 2008 a plot measuring 25186 SqFt was purchased at Jabal-e-Noor, Western by Pass Quetta for Construction of Stores Premises and in Financial Year 2011-12 an amount of Rs. 4.4 Million was approved after re-appropriation for Construction of only boundary wall which has been constructed. After that in the Budget for FY 2013-14 an amount of Rs. 5.5 Million was approved for construction of two (02) Sheds but the Civil Work could not be commenced due to budgetary short fall, however the proposal was reworked and a valuable amount was utilized for construction of one shed instead of two sheds due to budget constraints. Due to approval in Piecemeal Construction as per requirement is in pending and premises not in position to be occupied and stores activities are to be commenced. To occupy the premises and to carry out Stores activities at ONE LOCATION, it is imperative that entire Civil Works as per basic requirement are approved as proposed in the budget under review so that entire construction is carried out and location occupied and made functional in the interest of Organization.

Sai Southern Gas Company Ltd.

**Details of Buildings
For F.Y 2017 - 18**

Table # D-6.5

S No.	Description	Revenue Petition Rs Million	Need / Justifications
61	Separate Wash Room with fitting & Fixture.	0.525	As per instructions of management in the year 2008 a plot measuring 25186 Sqft was purchased at Jabal-e-Noor, Western by Pass Quetta for Construction of Stores Premises and in Financial Year 2011-12 an amount of Rs. 4.4 Million was approved after re-appropriation for Construction of only boundary wall which has been constructed. After that in the Budget for F-Year 2013-14 an amount of Rs. 5.5 Million was approved for construction of two (02) Sheds but the Civil Work is not yet commenced due to budgetary short fall, however the same is in process for utilization of approved amount after the approval of management. Due to approval in Piecemeal Construction as per requirement is in pending and premises not in position to be occupied and stores activities are to be commenced. To occupy the premises and to carried out Stores activities at ONE LOCATION, It is imperative that entire Civil Works as per basic requirement are approved as proposed in the budget under review so that entire construction is carried out and location occupied and made functional in the interest of Organization.
62	RCC Under ground Water Tank.	0.450	As per instructions of management in the year 2008 a plot measuring 25186 Sqft was purchased at Jabal-e-Noor, Western by Pass Quetta for Construction of Stores Premises and in Financial Year 2011-12 an amount of Rs. 4.4 Million was approved after re-appropriation for Construction of only boundary wall which has been constructed. After that in the Budget for F-Year 2013-14 an amount of Rs. 5.5 Million was approved for construction of two (02) Sheds but the Civil Work is not yet commenced due to budgetary short fall, however the same is in process for utilization of approved amount after the approval of management. Due to approval in Piecemeal Construction as per requirement is in pending and premises not in position to be occupied and stores activities are to be commenced. To occupy the premises and to carried out Stores activities at ONE LOCATION, It is imperative that entire Civil Works as per basic requirement are approved as proposed in the budget under review so that entire construction is carried out and location occupied and made functional in the interest of Organization.
63	Water Supply	0.500	As per instructions of management in the year 2008 a plot measuring 25186 Sqft was purchased at Jabal-e-Noor, Western by Pass Quetta for Construction of Stores Premises and in Financial Year 2011-12 an amount of Rs. 4.4 Million was approved after re-appropriation for Construction of only boundary wall which has been constructed. After that in the Budget for F-Year 2013-14 an amount of Rs. 5.5 Million was approved for construction of two (02) Sheds but the Civil Work is not yet commenced due to budgetary short fall, however the same is in process for utilization of approved amount after the approval of management. Due to approval in Piecemeal Construction as per requirement is in pending and premises not in position to be occupied and stores activities are to be commenced. To occupy the premises and to carried out Stores activities at ONE LOCATION, It is imperative that entire Civil Works as per basic requirement are approved as proposed in the budget under review so that entire construction is carried out and location occupied and made functional in the interest of Organization.
64	Plate form/ cage along with chain link fencing	0.500	For new C.P Stations to be installed in F.Y 2017-18 for protection of distribution network in Balochistan region.

Table # D-6.5

Sui Southern Gas Company Ltd.
Details of Buildings
For F.Y 2017 - 18

S No.	Description	Revenue Petition Rs Million	Need / Justifications
65	Construction of Administration & Time Office at MMP including bathrooms, flooring, false ceiling, electrical works, doors, windows & fixtures.	3,000	Time office is required to be constructed for the purpose of time recording to reduce congestion during morning and evening attendance of MMP Staff. The job includes construction of time office with sitting arrangement of staff and officer of Admin. Section with bathrooms, flooring, false ceiling, lighting and electrical work, door, windows and fixture. The approximate covered area will be 1100 Sq. Ft.
66	RLNG Transmission Project 42" X dia 338Km - Building & Civil works	379,000	
67	Additional Work at GTI Academic Block	1,190	Remaining Glass partitioning work at reception area of GTI Academic Block
68	C.C PAVERS F-76 DOPE YARD	3,000	For good house-keeping and to stop mud flowing in coating yard etc. at F-76, SITE, Dope Yard Office.
69	Cure Taker Room	4,000	1 x V.A. Jacobabad, 1 x V/A KMP-48+90, 1 x V/A KMP-72, 1 x OHC Naseer Shah, 1 x SMS Ghari Yaseen, 1 x V/A Dakhan, 1 x V/A MP-116 & 1 x SMS Bidah
70	Complete Electric Wiring for Wall & Floor Mounted AC with separate Electric Panel	3,000	Currently MRS building have several years old electric wiring which is incapable of adding additional load there for separate electric panels required for Air condition.
71	Construction of CP Rooms	5,000	For the Cathodic protection of unprotected underground pipeline Distribution - South
72	Construction of CP Rooms (RCC Room) Sukkur	3,000	Sukkur = 03 & Larkana = 03 for Cathodic Protection of unprotected underground pipelines.
73	Construction of CP Rooms (RCC Room)	3,000	Required for Quetta Zones = 03, Sibi = 01, Pishin = 01 & Dera Allah Yar = 01 for Cathodic Protection of unprotected under-ground pipelines.
74	Construction of metalized road from new office building to medical center, retiring room, store yard and emergency gate of R.O Larkana	4,080	During rainy season we face great difficulty in access to Medical Center and Regional Store Larkana from the main regional office.
75	Construction of MS Shed	1,830	Required for Industrial and Commercial slackening area.
76	Electrical Stores at HQ-Quetta, HQ-2 & HQ-Dadu	4,500	Electrical stores are needed to store Electrical items as per proper procedure in accordance with HSEQA rules. The Electrical store does not exist at mentioned location for safe custody of Spares and Inventory items.
77	Establishment / Up-Gradation Contact Center, (Including equipment)	18,000	To established centralized contact center for customers of Sindh & Balochistan.
78	Extension of Employees club (04 rooms) along with washroom.	4,550	HQ-3 being a very important headquarter, existing club is insufficient for the visitors and officials , therefore additional rooms are required
79	Extension of Transit Bungalows	1,250	Existing transit has only 3 bedrooms, which are un-sufficient to accommodate the visitors / official.
80	Iron Fabricated Shed (open shed)	5,000	Due to non-availability of surface grinder we are unable to grind the flat surface. To develop precise and accurate level of flat surface, this machine is required.
81	Modification of T-2 & T-3 Bungalows	6,240	These bungalows are very old and required complete modification/ renovation.

Sui Southern Gas Company Ltd.

Details of Buildings

For F.Y 2017 - 18

S No.	Description	F.Y 2017-18 Revenue Petition Rs Million	F.Y 2017-18 For F.Y 2017 - 18 Need / Justifications
82	Modification of old Transit buildings	4.550	Modification is required as the existing condition of building is deteriorated. This building is more than 40 years old.
83	Modification of old Transit building	4.800	The existing condition of building is deteriorated. This building is more than 40 years old and required major modification.
84	Modification of T-3 Bungalow (02 Nos)	5.280	Required complete modification / renovation as these bungalows are very old and condition of building is very bad.
85	Plaster of boundary wall at HQ-3	4.550	The boundary wall and its plaster has become damaged due to salinity in the area at many places. Plaster of wall is badly flaking. In order to maintain company's asset , the job is required.
86	Re-Carpeting of road inside HQ.	4.550	Existing road condition is worse, bumpy and badly damaged due to the water logging therefore need re-carpeting
87	Re-construction of boundary wall enclosure & CC Flooring at Garhi Yaseen, Naudero, SMS Badshah, V/A MP-116, V/A-18, V/A DM Jamali, SMS Lakshmir, V/A KMP-24.	4.550	The existing condition of enclosures is very worse, requires complete/partly re-construction. The deteriorated condition of enclosure is due to water logged area.
88	Re-construction of boundary wall of Sports Ground (phase-2) including barbed wire, angle iron, razor wire.	4.800	The foundation of existing Boundary wall is more than 40 years old and has been raised time to time as per requirement. Now it is not possible to raise it further as the external road has also been raised due to which raising has become essential from security point of view for which re-construction of boundary wall is required.
89	Re-construction T-3/2 Bungalow	7.000	The bungalow has become depilated and requires demolishing and reconstruction as there are only two T-3 type bungalows at HQ
90	Rising of HQ boundary wall 5ft (Phase 2)	3.600	From security point of view , raising of boundary wall height is required.
91	Roof Treatment & CC Flooring work of existing demised rented building of Zonal Office Kharipur. (Phase I),	3.000	The existing RCC construction is about 65 years old and has therefore outlived its useful life. 12 Nos. rooms are in most depleted condition and therefore carries hazards to the lives of employees and visitors. The building is in the possession of SSGC since 1986. Landlord not traceable so monthly rent of Rs.1400/- is being deposited in the Rent Controller Office as per decision passed by the Court.
92	Up gradation/Replacement of electric underground cabling at HQ-Quetta	5.000	It is HSE imperative and replacement required due to three decades old cable & panel at HQ-Quetta which creates frequently cable faults and it is dangerous for human life's and sensitive/ expensive equipment's,
93	Visitor's Motor Car / Motor Cycle Parking Shed with Dadex Sheets and platform with Paver tiling B/w both Main Gates external Side of RO Larkana	1.500	No parking shade for vehicles and motor cycles is available for the visitors of Regional Office Larkana. Therefore, parking shed with Dadex sheets and Plate-form with paver tiling are required in between eastern side of R.O Larkana.
94	C.C. PAVERS P-37	1.200	For emergency exit, a stone was demolished and for proper flooring CC Pavers are required.
95	Cage & Shade for GC Analyzer	1.050	Required for installation of GC Analyzer at Check Meter Sujawal, Nur Bagla, Haselt, Zarghun, Adam Hala, Singhor and SMS-FFBQI.
96	CC Flooring at V/A KMP-0	0.750	The existing floor is badly damaged/sunken, requires re-flooring.

Sui Southern Gas Company Ltd.

Details of Buildings

For F.Y 2017 - 18

S No.	Description	Revenue Petition Rs Million	F.Y 2017-18 For F.Y 2017 - 18	Need / Justifications
97	Civil works for the construction of stores at two head quarters (Shikarpur & Dadu)	2,800	These stores are required for the proper storage of Telecom/SCADA equipment's at HQ-Shikarpur & HQ-Dadu.	
98	Complete modification of Employees Club	4,800	The existing condition of club is very worse, therefore modification is required.	
99	Complete modification police dormitory HQ	2,400	Existing condition is very deteriorated, required modification.	
100	Construction of open plateform and paver path	1,345	The current Store building at Nawabsinh Headquarter HQ-2 is decaying and dilapidated with leaky roof. This facility is absolutely inadequate for storage of parts for the Compressors to be installed at Nawabsinhah for LNG. Therefor approval and construction of requisite store building is needed on priority basis at HQ-2 Nawabsinh owing to upcoming LNG related activities.	
101	Construction of Room at SSGC Police Station.	2,000	For SSGC Police Station.	
102	Electrical Wiring / Renovation of Staff Quarters at HQ-1, & HQ-SKP.	2,250	Mostly wirings are damaged and old which results in frequent power failure and dangerous for Human life's & expensive house source in case of Short Circuit.	
103	Elevated Over Head Water Tank	3,000	Existing Over head water tank is more than 40 years old & required major repairing work. It is better to replace the existing tank with bigger one due to increase in the consumption of water after installation of compressor and due to upcoming LNG project	
104	Establishment / Up-Gradation 3 Nos. CFCs' Saraih Road (Quetta), Shah Faisal Colony & Badin (Int. Sindh).	2,400	In order to facilitate the customers regarding Gas bills and other gas supply related issues, establishment / up gradation of 3 Nos. CFCs' at Shah Faisal Colony Karachi, Badin (Sindh) and Saraih road Quetta are proposed for FY 2016-17.	
105	GC Rooms	1,500	Required for installation of GCs at POD Check Meter Zamzam, Haseeb, Nur Bagla, Sejawal & Zarghun	
106	Laying of 4" dia UPVC water supply line from HQ to new compressor station including internal water supply network of HQ / compressor station.	2,600	Due to RLLNG project, at HQ-2, the consumption of water due to compressor station will be increased, therefore additional water supply line of 4" dia is required.	
107	Major Rectification of pile caps for 16" dia MPV from MP-106 to MP-107 (HQ-1)	1,920	At present the area appears to be a pond, due to the severe water logged area. The pile caps are badly damaged as it is completely surrounded by water . MPV was over headed in the past due to this severe water logged area in this section.	
108	Modification of bungalow/flat no. E-2, E-3, E-4	3,150	Existing floor of these bungalows/flats is mosaic (tile), which is very old and require regular grinding/polishing. Total number of toilets in these bungalows/flats are 20 from which 6 toilets require complete renovation due to the severe plumbing problem. Roof is also badly leaked for which screeding is required.	
109	Modification of RS-1 (Re-construction of boundary wall & major maintenance of quarters) (phase-2).	3,000	The condition of RS-1 is very deteriorated due to the flood in last 4 years. Phase 1 amounting to Rs. 2.5 million is approved in F.Y 2014-15 in which only 600 Ft. boundary wall is to be re-constructed.	
110	Modification of T-4 & T-5 quarters	1,043	These quarters have become old and major maintenance is required.	
111	Modification of T-4/T-5 Quarters	1,480	Required complete modification/ renovation in order to upgrade and maintain our asset.	

Table # D-6.5

Table # D-6.5

Sui Southern Gas Company Ltd.
Details of Buildings
For F.Y. 2017 - 18

S No.	Description	Revenue Petition Rs Million	Need / Justifications
112	Protective work of 12" dia (QPL) MPL at KMP-334	0.790	During the last monsoon season MPL exposed in this portion therefore protective work is required
113	Protective work of 12" dia Quetta-Zarghoon MPL at KMP-6 (US near Asmat check post)	2.125	During the last monsoon season MPL exposed in this portion therefore protective work is required
114	R.C.C. floor for welding yard in V/A	2.100	Existing floor is badly damaged due to heavy welding job, therefore re-flooring & increase in the area of floor is required
115	Re-Carpeting of road from HQ Main Gate to inside the HQ.	4,200	Existing road condition is worse, bumpy and badly damaged due to the water logging therefore need re-carpeting.
116	Re-carpeting of Road in Residential area	3,500	Existing road condition is worse, bumpy and badly damaged therefore need re-carpeting.
117	Re-flooring of above ground MPL structure / setup at SMS/MVA Pak Land MP-325 includes approach path.	2,800	At present the flooring is badly damaged after the completion of projects , therefore re-flooring / approach path is required
118	Renovation of Power House at HQ-3, & HQ-Shikarpur.	2,000	Existing condition of power houses wall and floors are in worst condition so Good house keeping requires. These power houses are not properly not suitable for operation of high rating generators.
119	Renovation of Power House at Repeater Stations of QPL Section at Shori, Damboli, Kili & Jhatpat.	2,800	Existing condition of power houses wall and floors are in worst condition need repairing for Good house keeping.
120	SMS Sindhi Butra	0.997	Re-construction of boundary wall is required due to its deteriorated condition.
121	Solar Room	1,500	Replacement of deteriorated rooms at MP-142 on ILBP, KMP-341 & 378 on IRBP. Additional KMP-205 on IRBP.
122	Solar Room with c/taker room	1,500	Additional are req'd at MP-02,147 on ILBP & KMP-212 on QPL to meet high current requirement.
123	Supply & Fixing of Civil and Masonry work for Tiles at Basement Area HO	2,000	Existing Floor of Basement is damaged. This is urgent required for improvement of workplace and make dust free area, which will increase the life of equipment and maintenance of good house keeping. Cost estimates are obtaining from Civil department.
Grand Total		746.441	

Table # D-6.6

Sui Southern Gas Co. Ltd.
Details of Telecommunication
For F.Y. 2017 - 18

S/N	Description	Amount Rs in million	Need / Justification
1	Extension sections of existing tower and its Installation at RS-Naing (150 ft)	29.000	Path clearance for 7/8 GHz Microwave system can be achieved at the height of 300 feet, We already have 150 feet section and extra sections shall be required to achieve desired height.
2	Guyed Towers at RO Hyd, RO Larkana and RO Sukkur (100ft)	3.500	At present the path clearance is partial due to high rise buildings and the tower needs to be extended at the height of 100 feet.
3	Telephone Sets (Compatible with Siemens exchanges)	0.660	Being required for Head Office, Karachi Terminal, Zonal Office & Head Quarters. Also required for HO, KT, Zonal Office & Head Quarters.
4	Hybrid Solar System for TM Khan, RS-2 and VA Bajra	3.000	Commercial Power supply is not stable, hence system shall be powered by Hybrid Solar System.
5	Satellite Links for 3 Valve Assemblies on Zarghon Pipeline	2.100	Microwave System is not available on Zarghon pipeline and its deployment is expensive due to path clearance on hill tops with no approach.
6	SCADA Systems for Distribution	10.000	SCADA System is required to monitor Distribution TBS for load management in peak hours and monitoring.
7	Telephone Exchange with all complete accessories (4+20 Lines)	0.400	The telephone exchange is required for Medical Center, Latifabad as replacement. The old unit burnt out.
8	Battery for SCADA Solar System	2.500	The existing batteries were deployed in 2008 and now drastically reduced back up time, needs replacement.
9	Smart Cellular Phones	1.600	Required for newly promoted/inducted executives to Grade-VII & above.
10	Battery Bank (48 Volts)	2.850	The system voltage has been changed from 24V to 48V therefore new battery banks are required for RS-Khadaji & RS-Sari.
11	Up-gradation of PABX at H.O (Hardware + Software)	7.500	Existing system HiPath 4000 was installed in the year 2000-2001 when the new SSGC Building was inaugurated. This system was installed with Version 1.0 as this system was the latest system from the house of Siemens Germany at that time. Since then, there has been only one up-gradation which was a Software up-gradation from Version 1.0 to Version 4.0 in the year 2009. Due to the rapid changes in the field of ICT, the manufacturer has introduced both new hardware and software version to cater for the latest requirements of the users. Our system will now be upgraded from version 4.0 to version 8.0. Additional audio conferencing system is required to meet the growing demand of audio conferencing at a time at Head Office.
12	Audio Conferencing System	0.600	

Sui Southern Gas Co. Ltd.
Details of Telecommunication
For F.Y. 2017 - 18

Table#D-6.6

S/N	Description	Amount Rs in million	Need / Justification
13	Construction of foundation & erection of Telecommunication Tower	32.000	Construction of foundation & erection of Telecommunication Towers is required at HQ-Shikarpur, HQ-Dadu, HQ-1, RS-Khadaiji & RS-Sari.
	Total	95.710	

Sui Southern Gas Co. Ltd.
Details of Compressor Stations

Table# D-6.8

S/N	Description	Addition Units			Replacement Units	Total No. of Units	Projected Cost (Rs in million)	Need Assessment	Cost Benefit Analysis	Reasons for Variations
		Units	Replacement Units	Total No. of Units						
1	Refurbishment/ Revamp of HQ-Sibi Compressor	-	-	-	1,100.200	Keeping in view the sustainability in gas supply and increasing demands of Quetta city and environs area of Baluchistan, the revamping of existing compressor is under consideration. Two compressor units are available at Sibi Compressor Station, the rated flow capacity of each unit is 60MMCFD. The rated flow capacity would be increased from 60 MMCFD to 120 MMCFD.				
2	New Compressor at Shikarpur to Jacobabad for QPL	1	-	1	1,100.200	The construction of mentioned infrastructure would provide sustainable gas supply and availability of additional gas to meet growing demand of Quetta and surrounding region. The simulation studies reveal that by implementing mentioned three (03) countermeasures the Quetta pipeline capacity would enhance from 149 to 181 MMcf/d.				
3	Repair of DR 990 Turbo Compressor Rotor (Capacity 120 MMSCFD)	-	-	-	30.000	We have one used rotor (120 MMSCFD) capacity whose impeller blades edges have worn out due to dust & condensate while in operation at Unit "B" of HQ-2 Compressor Station. This rotor needs to be inspected, repaired & dynamically balanced by Original Equipment Manufacturer M/s Dresser Rand.				
4	DR 990 Turbo Compressor Rotor (Capacity 120 MMSCFD)	-	-	-	45.000	We do not have any Spare Rotor of Dry Seal System configuration for two DR 990 turbo-compressors installed at Shikarpur Compressor Station. The Rotor is therefore required to meet any eventualty in case of installed Rotor failure.				
5	DR-990 Gas Turbine 35000 hours Overhaul Engine S/N: 655-201-001	-	-	-	281.000	The Turbine Engine needs to be overhauled as per Original-Equipment Manufacturer recommended overhaul schedule (Copy attached). It is in operation at Shikarpur Compressor Station & has clocked 33000 hours as on October 2016.				
6	Additional 06 Compressor units & extension of facility at Nawabshah (Total 30,000 HP) (RLNG)	-	-	-	144.970	Leftover work				
	TOTAL	1	-	1	2,701.370					

SUI SOUTHERN GAS COMPANY LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
For FY 2017-18
INDEX - SECTION - E

Index of Transmission and Distribution Cost	
DESCRIPTION	Table #
Transmission and Distribution Cost - Detailed	E-1
Gas Internally Consumed - Compressor Stations	E-2
Gas Internally Consumed - Metered / Un-metered	E-3
Stores, Spares & Supplies consumed	E-4
Electricity	E-5
Travelling	E-6
Insurance	E-7
Professional Charges	E-8
Security Expenses	E-9
Advertisement	E-10
Communications	E-11

SUI SOUTHERN GAS COMPANY LIMITED

Transmission and Distribution Cost - Detailed

S.No.	Description	OGRA Determination FRR FY 15-16 (22-12-2016)	OGRA Determination ERR FY 16-17 (6-10-2016)	Revised Estimates FY 2016-17	Petition FY 2017-18	Variance of Pet 2017-18 over OGRA Det 2016-17	Notes on Reason for change
1	Total Salaries ,wages and benefits	11,544.000	★ 12,928.000	★★ 12,761.000	★★ 13,840.000	912.000	1
2	<u>Gas Internally Consumed</u>						
	Compression	250.260	174.693	463.625	307.791	133.099	
	Domestic / Other use	54.470	39.877	52.404	58.383	18.506	
	Distribution	-	-	-	-	-	
	Other - LHF	1.370	0.881	0.270	0.301	(0.580)	
	Sub total:	306.100	215.451	516.299	366.475	151.025	2
	<u>Gas Internally Consumed (MMCF) - Compressor</u>	780	644	1,729	3,942		
	Compressor Running Hours	19,544	23,336	23,360	23,336		
	Consumption per hour	39.884	27.584	74.000	168.934		
	Loss due to Sabotage activity	13.000	-	-	-		
	<u>Stores Spares and Supplies Consumed</u>						
	Transmission & Compression and Others	155.44	190.55	185.66	233.65	43.10	
	Distribution	421.31	517.75	504.72	635.20	117.45	
	Head Office	76.54	93.90	91.43	115.06	21.16	
	Freight & handling	5.94	11.22	11.20	14.09	2.87	
	Sub total:	659.23	813.42	793.00	998.00	184.58	3
5	<u>Material & labour used on consumer's installation</u>	37.485	44.000	39.000	41.000	(3.000)	
6	<u>Impairment of capital WIP</u>	130.000	-	-	-	-	
7	<u>Electricity</u>	192.819	232.000	218.000	227.000	(5.000)	
8	<u>Rent, Rates, and Taxes</u>						
	Rent	109.030	129.478	126.000	145.259	15.781	
	Royalty	1.410	5.000	4.000	3.500	(1.500)	
	Others	53.328	64.522	63.000	73.741	9.219	
	Sub total:	163.768	199.000	193.000	222.500	23.500	4
9	<u>Travelling</u>						
	Local travelling						
	Executives	22.080	27.194	28.519	38.297	11.103	
	Subordinates	5.310	4.971	6.009	8.070	3.099	
	Foreign travelling	0.060	3.655	3.297	4.427	0.772	
	Other travelling	70.283	73.396	67.175	90.206	16.810	
	Sub total:	97.733	109.216	105.000	141.000	31.784	5
10	<u>Insurance</u>						
	Third party	0.992		0.933	0.984	0.984	
	Fire risk/Damage to property	55.109		55.549	58.568	58.568	
	Other insurance	62.703		81.518	85.948	85.948	
	Sub total:	118.804	140.000	138.000	145.500	5.500	
11	<u>Postage & Bill Delivery by Contractors</u>	87.934	97.000	96.000	121.000	24.000	6
12	<u>Repair and Maintenance</u>						
	Transmission	114.670		111.273	134.816	134.816	
	Distribution	887.530		926.182	1,122.147	1,122.147	
	Compression	1.890		3.273	3.965	3.965	
	Other	369.810		651.273	789.072	789.072	
	Sub total:	1,373.900	1,506.000	1,692.000	2,050.000	544.000	7

★ HR cost at benchmark

★★ Estimated HR cost

SUI SOUTHERN GAS COMPANY LIMITED

Transmission and Distribution Cost - Detailed

S.No.	Description	OGRA Determination FRR FY 15-16 (22-12-2016)	OGRA Determination ERR FY 16-17 (6-10-2016)	Revised Estimates FY 2016-17	Petition FY 2017-18	Variance of Pet 2017-18 over OGRA Det 2016-17	Notes on Reason for change
13	<u>Legal and Professional charges</u>						
	Legal	90,000	81,000	87,000	103,000	24,000	
	Professional	91,000	46,000	43,000	80,000	31,000	8
	Meter Reading by Contractors	67,382	75,000	72,000	85,000	10,000	9
	Collecting Agent Commission	2,814	3,000	2,000	3,000	-	
	Sub total:	253,196	205,000	204,000	273,000	68,000	
14	<u>Security Expense</u>						
	Transmission	301,430	404,695	369,348	419,844	15,149	
	Distribution	141,600	128,436	117,218	133,244	4,808	
	Head Office and others	27,356	27,868	25,434	28,911	1,043	
	Sub total:	470,386	561,000	512,000	582,000	21,000	10
15	<u>OGRA Fee</u>	99,466	166,843	70,854	58,000	(108,843)	11
16	<u>Advertisement</u>	102,707	125,000	106,000	115,000	(10,000)	12
17	<u>Gas Bills Collection Charges</u>	178,466	187,356	187,000	194,000	-	
18	<u>Gas Bills stubs processing Charges</u>	19,217	23,000	21,000	24,000	6,644	13
19	<u>Other</u>					1,000	
	Communications	5,990	54,000	46,000	49,000	(5,000)	
	Subscriptions	13,000	14,000	38,000	35,000	21,000	
	Other miscellaneous	103,860	82,000	93,000	124,000	42,000	
	Sub total:	122,850	150,000	177,000	208,000	58,000	14
	<u>Gross T&D Cost</u>	15,971,061	17,702,285	17,829,153	19,606,475	1,904,190	
20	<u>SSGC's share in Interstate Gas Systems (Pvt) Ltd revenue expenditure</u>	-	-	-	-	-	
21	<u>Revenue Expenditure relating to LNG</u>	26,000	62,000	51,000	93,000	31,000	
	<u>Gross T&D Cost</u>	15,997,061	17,764,285	17,880,153	19,699,475	1,935,190	
	<u>Less : Recoveries /Allocations</u>						
	Amount allocated to GDS (N)	1,581,810	1,870,000	1,740,000	1,874,836	4,836	
	Others	8,840	7,000	8,000	7,018	0,018	
	Installation Cost Recovered	73,520	19,000	40,000	19,049	0,049	
	Cost allocated to Meter Plant	58,710	63,000	56,000	63,163	0,163	
	Recoveries/Refunds of Services Cost from/to SNGPL	407,570	295,170	136,000	295,933	0,763	
	Oil and Gas development company Ltd.	17,070	-	-	-	-	
	Allocation to condensate	-	-	-	-	-	
	Recovery from Others	-	-	-	-	-	
	Sub total:	2,147,520	2,254,170	1,980,000	2,260,000	5,830	
	<u>Net T&D Cost</u>	13,849,541	15,510,115	15,900,153	17,439,475	1,929,360	

NOTES ON REASONS FOR VARIATIONS FROM OGRA DETERMINATION DATED 22.12.16 ON ERR FOR FY 2016-17

		Rs. Million
1	HR Cost: Please see details in basis & assumptions.	
2	Gas Internally Consumed: Increased is mainly due to increase in volumes & rates: -Volume variance -Rate variance	119.87 31.17 151.04
3	Stores, Spares & Supplies Consumed: The major increase is attributed on account of extensive UFG control activities as well as due to expected increase in consumption & prices of chemical products/fuel and lubricants besides general inflation.	
4	Rent, Rates & Taxes: The estimated increase is mainly on account of way leave rental due to NHA payments as well as utility charges for municipal services and with additional increase in rent on account of expected revision of rental agreements.	
5	Travelling: In ERR FY 2016-17, the company projected an amount of Rs. 175 million whereas the Authority allowed an amount of Rs. 109 million i.e. 62% of the amount requested, however lower estimates of Rs. 141 million has been projected for FY 2017-18, the increase is due to general inflation & expected increase in air fares for local/foreign travelling including TA/DA.	
6	Postage and Bill delivery by contractors: Increase is due to expected enhanced activity and rates by courier services. The increase is due to expected increase in customers and rate revision.	
7	Repair & Maintenance: In ERR FY 2016-17, Authority disallowed Rs. 702 million or 32% out of the requested amount of Rs. 2,208 million, however owing to the extensive UFG control programme for FY 2017-18 an amount of Rs. 2,050 has been estimated	
8	Legal & Professional Charges: The main reason for increase under this head is a significant increase in litigation cases e.g. GIDC matters, cases related to OGRA price notifications, Suo moto cases by Supreme & High Courts, HR matters, IPPs role, gas holiday, gas theft, and additionally consultancy charges owing to services for pipe coating plant and risk management have also being envisaged, etc.	
9	Meter Reading by contractors: Increase is due to expected increase in number of customers and expected rates review for future, as well as Nil / Minimum surveys and special Meter reading.	
10	Security Expenses: Increase due to revised agreements with security agencies to cope up with security needs at important locations/ Co's installations. Expenses also envisaged for the Police station of SSGC.	
11	OGRA fee: OGRA license renewal fee worked out on the basis of DERR for FY 2016-17 dated: 6 October 2016	
12	Advertisement: Mainly Increase due to customer campaigns and tender advertisements.	
13	Gas Bills Collection & Stub Processing Charges: Gas bill collection charges are expected to increase due to enhanced rates from Rs. 8/bill (rates effective since 2006) to Rs. 9/bill.	
14	Others: Expenses are already determined (lesser by 113 million or 43%) on lower side by the Authority. Increase is on account of inflationary factors plus increase in subscription, directors' fee, etc.	

SUI SOUTHERN GAS COMPANY LIMITED
GIC : COMPRESSOR STATIONS

Table # E-2

Particulars	OGRA Determination FRR FY 15-16 (22-12-2016)	OGRA DETERMINATION ERR FY 2016-17	REVISED ESTIMATES ERR FY 2016-17	PETITION ERR FY 2017-18
Compressor Station A (Location) SKP				
Compressor Running hours	8,539.1	8,760.0	8,826.2	8,760.0
Volume of gas handled /compressed (MMCF)	37,564.0	37,427.4	35,000.3	35,000.0
Volume of gas handled /compressed (MMBTU)	36,042.3	36,354.4	33,595.0	33,594.8
GIC (MMCF)	408.4	395.7	440.1	440.0
GIC (BBTU)	393.9	387.1	425.7	420.6
GIC (Rs. in million)	128.8	106.2	115.0	126.5
Compressor Station B (Location) HQ-2 (RLNG)				
Compressor Running hours	2,997.0		18,877.0	52,560.0
Volume of gas handled /compressed (MMCF)	15,888.7		138,085.0	438,000.0
Volume of gas handled /compressed (MMBTU)	15,994.2		136,767.2	433,820.1
GIC (MMCF)	108.8		914.4	2,900.0
GIC (BBTU)	109.5		917.3	2,909.5
GIC (Rs. in million)	35.8		247.7	875.1
Compressor Station C (Location) HQ- 3				
Compressor Running hours	8,007.500	8,000.0	11,760.0	17,520.0
Volume of gas handled /compressed (MMCF)	26,613.700	29,600.0	39,085.5	58,229.0
Volume of gas handled /compressed (MMBTU)	26,590.500	29,565.6	39,069.0	58,178.6
GIC (MMCF)	275.800	248.0	374.1	602.3
GIC (BBTU)	275.300	247.7	373.8	602.8
GIC (Rs. in million)	90.023	67.9	100.9	181.3
Total Compressors (All Locations)				
Compressor Running hours	19,543.6	16,760.0	39,463.2	78,840.0
Volume of gas handled /compressed (MMCF)	80,066.4	67,027.4	212,170.7	531,229.0
Volume of gas handled /compressed (BBTU)	78,627.0	65,920.0	209,431.2	525,593.5
GIC (MMCF)	793.0	643.7	1,728.6	3,942.250
GIC (BBTU)	778.7	634.8	1,716.7	3,932.919
GIC (Rs. in million)	254.6	174.7	463.625	1,182.865
Less RLNG GIC (Rs. in million)	-	-	247.727	875.073
Net GIC (Rs. in million)	254.6	174.7	215.898	307.791

SUI SOUTHERN GAS COMPANY LIMITED
GIC: METERED / UNMETERED

Table # E-3

Particulars	FY 2015-16				FY 2016-17				FY 2016-17				FY 2017-18			
	PETITION FOR DERR				PETITION FOR DERR				REVISED ESTIMATES				PETITION			
	MMCF	MMMBTU	Rs. Million	MMCF	MMMBTU	Rs. Million	MMCF	MMMBTU	Rs. Million	MMCF	MMMBTU	Rs. Million	MMCF	MMMBTU	Rs. Million	
Compression																
Metered	779.4	765.3	250.3	643.7	634.8	174.7	814.2	799.4	215.9	1,042.3	-	1,023.4	-	307.8		
Unmetered	13.5	13.4	4.4	-	-	-	-	-	-	-	-	-	-	-	-	
Sub total:	792.9	778.7	254.6	643.7	634.8	174.7	814.2	799.4	215.9	1,042.3	-	1,023.4	-	307.8		
Company own use																
Metered	162.5	157.8	51.6	147.4	144.9	39.9	144.0	38.9	150.0	146.1	-	143.9	-	43.9		
Unmetered	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sub total:	162.5	157.8	51.6	147.4	144.9	39.9	144.0	38.9	150.0	146.1	-	143.9	-	43.9		
LHF - Internally used																
Metered	4.2	4.2	1.4	3.0	3.2	0.9	1.0	1.0	1.0	1.0	-	1.0	-	1.0	0.3	
Unmetered	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sub total:	4.2	4.2	1.4	3.0	3.2	0.9	1.0	1.0	1.0	1.0	-	1.0	-	1.0	0.3	
Gas Purged																
Metered	8.3	8.2	2.7	-	-	-	-	-	-	-	-	-	-	-	-	
Unmetered	4.6	4.5	1.5	30.0	30.0	8.3	50.0	50.0	13.5	50.0	-	48.0	-	14.4		
Sub total:	12.9	12.7	4.2	30.0	30.0	8.3	50.0	50.0	13.5	50.0	-	48.0	-	14.4		
Sub total: Transmission	967.9	953.4	311.8	824.1	812.9	223.7	1,015.1	994.5	268.6	1,243.3	-	1,218.5	-	366.5		
Loss Due To Sabotage																
Transmission	4.6	4.4	1.4	-	-	-	-	-	-	-	-	-	-	-	-	
Distribution	34.7	34.3	11.2	-	-	-	-	-	-	-	-	-	-	-	-	
Total	39.3	38.7	12.7	-	-	-	-	-	-	-	-	-	-	-	-	
Distribution																
Metered	0.6	0.6	0.2	-	-	-	-	-	-	-	-	-	-	-	-	
Unmetered	0.1	0.1	0.0	15.4	15.2	4.2	15.4	8.5	2.3	15.4	-	8.5	-	2.6		
Sub total:	0.7	0.7	0.2	15.4	15.2	4.2	15.4	8.5	2.3	15.4	-	8.5	-	2.6		
Third Party Damages																
Unmetered	433.6	433.3	143.3	448.4	442.3	121.7	448.4	443.0	119.6	448.4	-	433.0	-	133.2		
Sub total Distribution	443.7	438.4	143.4	448.4	442.3	121.3	463.7	451.5	121.9	463.7	-	433.0	-	133.2		
AS CONSUMED																
INTERNALLY TOTAL	1,456.1	1,431.1	468.0	1,287.8	1,270.4	349.6	1,478.9	1,445.9	390.5	1,707.0	-	1,670.0	-	502.3		
Metered	955.0	936.1	306.1	794.1	782.9	215.5	1,015.1	994.5	268.6	1,243.3	-	1,218.5	-	366.5		
Unmetered	501.1	495.0	161.9	493.7	487.5	134.1	463.7	451.5	121.9	463.7	-	451.5	-	135.8		
TOTAL	1,456.1	1,431.1	468.0	1,287.8	1,270.4	349.6	1,478.9	1,445.9	390.5	1,707.0	-	1,670.0	-	502.3		

SUI SOUTHERN GAS COMPANY LIMITED
STORES AND SPARES CONSUMED

Table # E-4

Particulars	FY 2015-16	FY 2016-17	FY 2016-17	FY 2017-18	Variation between FY 2017-18 and 2016-17 Rs. Million
	OGRA Determination FRR	OGRA Determination ERR	Revised Estimates	Petition	
Transmission	155.440	190.552	185.655	233.650	47.99 26
Distribution	421.310	517.748	504.721	635.197	130.48 26
Head Office	76.540	93.903	91.428	115.063	23.64 26
Sub total	653.290	802.203	781.805	983.910	202.11 26
Freight & Handling	5.940	11.217	11.195	14.090	2.89 26
Grand total	659.230	813.419	793.000	998.000	205.00 26

Table # E-4

166

SUI SOUTHERN GAS COMPANY LIMITED
Electricity

Table # E-5

Particulars	FY 2015-16			FY 2016-17			FY 2016-17			Variation between FY 2017-18 & 2016-17		Rs. Million %age
	OGRA Determination FRR	OGRA Determination ERR	Revised Estimates	Petition	FY 2017-18	Petition	FY 2017-18	Petition	FY 2017-18	Petition	FY 2017-18	
Transmission & Compression	47,293	35,138	33,018		34,381		1,363					
Distribution												
1 Karachi Region	75,769	83,810	78,753		82,004		3,251					
2 Sindh Interior Region	29,855	42,928	40,338		42,003		1,665					
3 Balochistan Region	12,160	8,382	7,876		8,201		0,325					
Sub total	117,784	135,120	126,966		132,208		-2,912					
Head Office												
Grand total	192,819	232,000	218,000		227,000		0,846					
							0					

SUI SOUTHERN GAS COMPANY LIMITED
TRAVELLING EXPENSES

Table # E-6

Particulars	FY 2015-16	FY 2016-17	FY 2016-17	FY 2017-18	Variation between FY 2017-18 & 2016-17 Rs. Million	%age
	OGRA Determination FRR	OGRA Determination ERR	Revised Estimates	Petition		
Transmission	25.182	40.088	24.028	32.266	8.24	34
Distribution	18.790	27.597	16.541	22.212	5.67	34
Head Office	53.761	107.496	64.431	86.522	22.09	34
Total	97.733	175.181	105.000	141.000	36.000	34
Less en-block reduction by OGRA		66.181				
Allowed		109.000				

Table # E-6

**SUI SOUTHERN GAS COMPANY LIMITED
INSURANCE**

Table # E-7

Rs. Million

Particulars	FY 2015-16	FY 2016-17	FY 2016-17	FY 2017-18	Variation between FY 2017-18 & 2016-17	
	OGRA Determination FRR	OGRA Determination ERR	Revised Estimates	Petition	Rs.Million	%age
Third Party insurance	0.992		1.152	1.215	0.063	5
Fire risk/Damage to property	55.109		64.013	67.492	3.479	5
Motor Vechical Insurance	40.811		47.405	49.981	2.576	5
Other Insurance including Consequential loss	21.892		25.429	26.811	1.382	5
Total	118.804	140.000	138.000	145.500	7.500	5

★ Break-up not available in DERR

**SUI SOUTHERN GAS COMPANY LIMITED
PROFESSIONAL CHARGES**

Table # E-8

Particulars	FY 2015-16			FY 2016-17			FY 2017-18			Variation between FY 2017-18 & 2016-17	
	OGRA Determination FRR	OGRA Determination ERR	Revised Estimates	Petition	Rs. Million	%age					
Professional charges	93,000	46,000	43,000		80,000	86					
Total	93,000	46,000	43,000	80,000	37,000	86					

71

SUI SOUTHERN GAS COMPANY LIMITED SECURITY EXPENSE

Table # E-9

Particulars				Variation between FY 2017-18 & 2016-17	Rs. Million
	FY 2015-16	FY 2016-17	FY 2016-17		
	OGRA Determination FRR	OGRA Determination ERR	Revised Estimates		
Transmission	301.430	404.695	369.348	419.844	50.50
Distribution	141.600	128.436	117.218	133.244	16.03
Head Office & Others	27.356	27.868	25.434	28.911	3.48
Total	470.386	561.000	512.000	582.000	70.000
					14

SUI SOUTHERN GAS COMPANY LIMITED
ADVERTISEMENT

Table # E-10

Particulars	FY 2015-16	FY 2016-17	FY 2016-17	FY 2017-18	Rs. Million	
	OGRA Determination FRR	OGRA Determination FRR	Revised Estimates	Petition	Variation between FY 2017-18 & 2016-17	%age
1 Compulsory Advertisement	89,250	105,000	89,040	102,000	12,96	15
2 Voluntary Advertisement	13,457	19,000	16,112	13,000	(3,11)	-19
3 Environmental Advertisement	-	1,000	0,848	-	(0,85)	-100
Total	102,707	125,000	106,000	115,000	9,00	3

SUI SOUTHERN GAS COMPANY LIMITED
COMMUNICATIONS

Table # E-11

Particulars	FY 2015-16	FY 2016-17	FY 2016-17	FY 2017-18	Variation between FY 2017-18 & 2016-17	
	Determination FRR	OGRA Determination ERR	Revised Estimates	Petition	Rs. Million	%age
Transmission & Compression	(4.88)	38.405	32.990	35.142	2.152	7
Distribution						
1. Karachi Region	0.743	0.987	0.848	0.903	0.055	7
2. Sindh Interior Region	3.886	4.435	3.810	4.058	0.248	7
3 Balochistan Region	1.128	1.673	1.437	1.531	0.094	7
Sub Total Distribution	5.757	7.095	6.095	6.492	0.397	7
Sub total	0.873	45.500	39.085	41.634	2.549	7
Headoffice	5.117	8.050	6.915	7.366	0.451	7
Grand total	5.990	53.550	46.000	49.000	3.000	7