



**Sui Southern Gas
Company Limited**

Ref : RA/21/23

Dated : 14 February 2022

Dr. Abdul Basit Qureshi
Registrar
Oil & Gas Regulatory Authority
ZTE Plaza near PIA Booking Office
Blue Area
Islamabad.

Subject: PETITION FOR ESTIMATED REVENUE REQUIREMENT (ERR) FY 2022-23

Dear Sir,

Please refer to our letter RA/21/23 dated: 31 January 2022, wherein the Company has requested the Authority to file the subject petition by 14 February 2022.

SSGC's Estimated Revenue Requirement (ERR) Petition for FY 2022-23 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.

The estimated revenue requirement for FY 2022-23 has been worked at a shortfall of Rs. 88,798 million or Rs. 313.73 per MMBTU for indigenous gas business and a shortfall of Rs. 21,784 million or Rs. 47.14 per MMBTU for RLNG business which may be allowed in SSGC prescribed price effective 1st July 2022. The instant Petition may further be amended based on the pending determinations & Final Revenue Requirement Petition / Determination for FY 2021-22 by OGRA.

Detailed write-up on the main items is explained in Annexure-D and Table D-1 of the instant petition.

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.

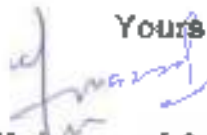




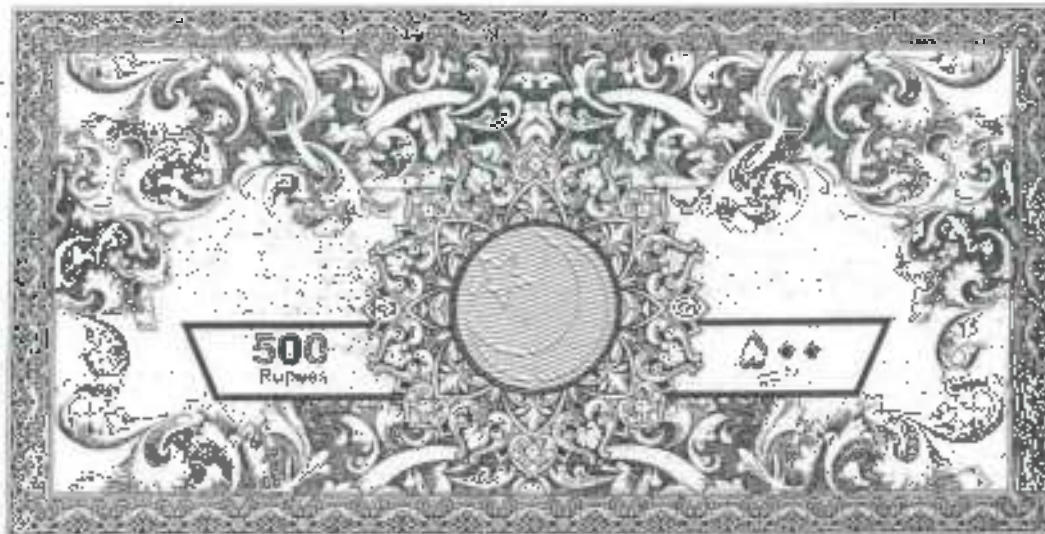
The Petition filing fee of Rs.1,000,000/- (Rupees one million only) is being paid through enclosed demand draft # 24997583 dated: 23 November 2021.

We would therefore request the Authority to approve an increase of Rs 88,788 million or Rs. 313.73 per MMBTU in indigenous gas business and Rs. 21,784 million or Rs. 47.14 per MMBTU in the revenue requirement of RI NG business with effect from 1st July 2022 in SSGC's tariff for FY 2022-23.

Yours sincerely,


Muhammad Asad Mustafa
DGM Incharge
(Regulatory Affairs Dept.)
(For Managing Director)

cc: **Ms. Misbah Yaqub, Senior Executive Director (Gas) OGRA**
Ms. Tayaba Ahsan, Joint executive Director / HoD Finance-I OGRA



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SYED NAWAZISH ALI

Advocate L-1502

SUB POWER OF ATTORNEY

(RUPEES FIVE HUNDRED ONLY)



KNOW ALL MEN BY THESE PRESENTS THAT SUI SOUTHERN GAS COMPANY LIMITED, a Public Limited Company, under the Laws of Islamic Republic of Pakistan, and having its registered office at ST-4/B, Block-14, Sir Shakh Muhammad Euseman Road, Gulshan-e-Iqbal, Karachi, acting through its authorized representative, the Managing Director Mr. Imran Madiat authorized via General Power Attorney Registered No. 43, Book No. IV, dated 24-02-2021 with Sub-Registrar III, Gulshan-e-Iqbal Town Karachi and Digital scanning unit Karachi, BOR Sindh RD 40/SRO-43/Type: 42 dated 8-March-2021 do hereby nominate, constitute, appoint and outfit Mr. Muhammad Asad Mustafa s/o Muhammad Mustafa Asad, holding CNIC No. 42451-1804689-1, Deputy General Manager (Regulatory Affairs) of the Company hereinafter called "the Attorney" with effect from 11 March 2021 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 Executant of this Power of Attorney here set his hand and seal this document in the presence of following witnesses on this 16 day of March 2021 and the corporate seal of Sui Southern Gas Company Limited is hereunto duly affixed.

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EXECUTANT:

Imran Mirza

Managing Director

Sui Southern Gas Company Ltd

WITNESSES:

Bilal Farooq Ali

CNIC No. 37401-1969629-9



Imran Mirza

Imran Mirza

CNIC No. 41201-042371-7



ABU TALIB MOUSTAFA
JUDGE OF PEACE
Empowered by S.A.N.B. O.S.D.
At Magistrate Court of District
KARACHI-PAKISTAN

17 MAR 2021



14 FEB 2022

15

SUI SOUTHERN GAS COMPANY LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2022-23

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SCHEDULE - 1

OIL AND GAS REGULATORY AUTHORITY

Application Form

Company Profile

1	Name of the Petitioner:	Sui Southern Gas Company Limited
2	Full address of the Petitioner	Head Office: 81-A/B, Block: 14, Sir Siah Sultan Road, Gulshan-e-Iqbal, Karachi - 75300. PARK Tel: 021-99231500 Fax: 021-99231350
3	The grounds giving rise to petitioner's interest forming the basis of the petition.	The instant petition is filed to meet the requirement of section 8(1) of OGRA Ordinance read with Rule 4(2) of Natural Gas Tariff Rules 2002. The grounds of the petition forming basis of the requested price adjustment are annexed to the petition.
4	Number & details of License	License 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 deceleration sought from the Authority.	4300 tariff working for FY 2022-23 reflects that an upward adjustment of Rs 313.73 per MMBTU is SSCGT's prescribed price w.e.f. 1st July 2022 is required to adjust the shortfall in Co's revenues on gas operation as per license condition # 3.2, prescribing 16.79% ROA and subsidy for LPG Air Mix Projects as per Govt directives. <table><tr><th colspan="3">Rupees per MMBTU</th></tr><tr><th colspan="3">Monthly Average</th></tr><tr><th>Domestic Gas (MMBTU)</th><th>Price per MMBTU</th><th>Volume (Dow)</th></tr><tr><td>OMTUA) ING REVENUES</td><td>795.86</td><td>715.55</td><td>(80.28)</td></tr><tr><td colspan="4"><u>OPERATING EXPENSES</u></td></tr><tr><td>Cost of gas sold</td><td>705.17</td><td>931.31</td><td>196.14</td></tr><tr><td>Adjustment for LPG above benchmark</td><td>(38.50)</td><td>(53.67)</td><td>(14.48)</td></tr><tr><td>Other expenses</td><td>96.33</td><td>146.22</td><td>49.89</td></tr><tr><td></td><td>792.81</td><td>1,024.46</td><td>231.65</td></tr><tr><td>(Surplus)/Shortfall in Revenue Requirement in Gas Operation</td><td>12.90</td><td>308.88</td><td>311.53</td></tr><tr><td>Subsidy for LPG Air Mix Projects over & above Gas Operation</td><td>2.96</td><td>4.85</td><td>1.90</td></tr><tr><td>Shortfall in Revenue Requirement of Natural Gas Customers</td><td>-</td><td>313.73</td><td>313.73</td></tr><tr><td>Shortfall in Revenue Requirement of RLNG Customers</td><td>-</td><td>47.14</td><td>47.14</td></tr></table>	Rupees per MMBTU			Monthly Average			Domestic Gas (MMBTU)	Price per MMBTU	Volume (Dow)	OMTUA) ING REVENUES	795.86	715.55	(80.28)	<u>OPERATING EXPENSES</u>				Cost of gas sold	705.17	931.31	196.14	Adjustment for LPG above benchmark	(38.50)	(53.67)	(14.48)	Other expenses	96.33	146.22	49.89		792.81	1,024.46	231.65	(Surplus)/Shortfall in Revenue Requirement in Gas Operation	12.90	308.88	311.53	Subsidy for LPG Air Mix Projects over & above Gas Operation	2.96	4.85	1.90	Shortfall in Revenue Requirement of Natural Gas Customers	-	313.73	313.73	Shortfall in Revenue Requirement of RLNG Customers	-	47.14	47.14
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6	Summary of evidence showing facts particulars of the data, facts and evidence in support of the petition	Statement showing head-wise Revenue Requirement is attached as per Annexure - A.
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7	List of all other petitions filed by the persons 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 these petitions will have on these other petitions.	1. Motion for Review Petition for FY 2014-15 dated 4 June 2021 and Amended dated 25 June 2021 Under Rule 16 of NGTR 2002 against Authority's Determination of Final Revenue Requirement for FY 2014-15, resulting in increase of Rs. 7,028 million or Rs. 20.50 per MMBTU for indigenous gas and a shortfall of Rs. 28,027 million or Rs. 70.69 per MMBTU for RLNG gas business. 2. Motion for Review Petition for FY 2014-15 dated 15 September 2021 Under Rule 16 of NGTR 2002 and Section 11 of OGRA Ordinance 2002 against Authority's Determination of Estimated Revenue Requirement for FY 2014-15, resulting in increase of Rs. 1,796 million or Rs. 28.16 per MMBTU for indigenous gas and a shortfall of Rs. 18,948 million or Rs. 40.43 per MMBTU for RLNG gas business. 3. Petition for Final Revenue Determination for FY 2019-20 dated 24 September 2021 Under Section 8(2) of OGRA Ordinance 2002 read with rule 1(3) of NGTR 2002 seeking an increase of Rs. 56,319 million or Rs. 187.16 per MMBTU for indigenous gas and a shortfall of Rs. 35,304 million or Rs. 104.98 per MMBTU for RLNG gas business. 4. Review Petition for FY 2021-22 dated 17 October 2021 including Motion for Review Revision Annexure 2 is integral part seeking an increase of Rs. 18,379 million or Rs. 58.42 per MMBTU for indigenous gas business with a request to revise SSCGT's prescribed prices w.e.f. July 1, 2021 and a shortfall of Rs. 30,817 million or Rs. 80.45 per MMBTU for RLNG gas business.
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a)	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;	RLNG		Natural Gas		
		Category	Customer Numbers	Usage in MMBTU	Customer Numbers	Usage in MMBTU
		Domestic	25,500	-	1,529,154	100,156
		Commercial	2,497	1,538	24,000	8,943
		Industrial	1,109	68,447	3,966	171,641
			32,507	69,985	3,995,109	281,040
b)	if the petitioner is a licensee an estimate of the volume of natural gas to be transmitted, distributed or sold	Transmitted		79,556		342,361 MMBTU
		Distributed and Gas Sold		69,985		280,040 MMBTU
c)	the petitioner's total annual peak day natural gas requirement				2,337 MMBTU	
d)	The petitioner's forecast of yearly capital expenditure for five years including the year under evaluation	This includes 947 MMBTU gas handled / Transported by SSCGT.				
		As per Annexure - B				

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT SHOWING REVENUE REQUIREMENT

S.No.	DESCRIPTION	Thammasara EHR FY 2021-22 dt: 11-08-2021	Review Position FY 2021-22	Related to Natural Gas Customers	Related to PNG Customers	Peterson EHR FY 2022-23	Related to Natural Gas Customers	Related to PNG Customers	Variance over Deferral option FY 2021-22	S.No.
		a	b			c	d	e	f	
1	Sales volume (MMCF)	325,289	330,482	329,643	70,241	335,152	334,816	66,216	(36,421)	1
2	Energy Sale in MMMBTU	315,783	385,218	314,911	75,337	253,924	281,049	69,965	(33,742)	2
3	Energy delivered in MMMBTU			509,594				162,091		3
4	OPERATING REVENUES									4
5	Gas Sales Revenue net of GDS	246,613	431,967	245,593	186,549	362,821	197,926	164,895	(50,587)	5
6	Other revenues	5,064	19,201	5,044	14,107	12,265	4,611	7,674	(483)	6
7	Total operating revenues	253,678	451,168	250,637	200,656	375,106	202,537	172,569	(51,170)	7
8										8
9	OPERATING EXPENSES									9
10	Cost of gas sold	234,397	448,798	243,911	204,837	455,319	263,595	190,722	29,238	10
11	Adjustment for LPG share contribution	(12,501)	-	(12,715)	32,420	-	(15,071)	5,021	(2,718)	11
12	Transmission and Distribution cost	10,533	32,983	19,711	3,272	21,658	21,455	241	4,575	12
13	Gas Internally Consumed	346	1,637	749	3,488	826	886	-	340	13
14	Depreciation	7,009	3,726	7,315	1,404	9,522	8,244	1,577	1,711	14
15	Contributed to WPPF / Other charges	134	2,587	1,746	341	3,841	2,836	1,918	1,902	15
16	Return to SSGCL (ROA)	4,487	11,704	7,029	4,673	12,736	7,962	4,554	1,473	16
17	Total operating expenses	252,765	499,135	368,142	231,293	496,316	359,962	194,251	37,596	17
18										18
19	(Surplus)/Shortfall in Gas Operations	(942)	(48,272)	17,455	50,817	109,309	83,425	21,754	88,507	19
20	Subsidy for LPG Air Mix Projects under above gas operation	942	944	944	-	1,373	1,373	-	451	20
21	Total Shortfall in Revenue Requirement of Natural Gas Tariff	-	243,990	213,172	30,917	110,883	95,798	21,784	88,798	21

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT SHOWING REVENUE REQUIREMENT

S No	DESCRIPTION	Determination TAR FY 2021-22	Review Petition FY 2021-22		Petition FY 2021-22		Variance over Determination FY 2021-22		S No
		Related to Natural Gas Customers	Related to Natural Gas Customers	Related to LNG Customers	Related to Natural Gas Customers	Related to LNG Customers	C	B	
1	Sales volume (MMCF)	325,289	325,648	76,241	288,316	66,336	(36,973)	(11.2)	1
2	Energy Sold at MMDSBT	318,752	314,911	73,337	282,010	69,965	(36,742)	(11.2)	2
3	Energy delivered in MMMBTU			509,694		462,060			3
4	<u>OPERATING REVENUES</u>								4
5	Gas Sales Revenue net of taxes	774.88	779.88	365.65	699.29	356.85	(38.59)	(13.3)	5
6	Other revenues	15.98	16.18	27.68	16.29	16.61	0.31	1.9	6
7	Total operating revenues	790.86	796.06	393.33	715.58	373.45	(80.28)	(10.1)	7
8									8
9	<u>OPERATING EXPENSES</u>								9
10	Cost of gas sold	735.17	774.54	401.98	931.31	371.62	196.14	26.7	10
11	Adjustment for HFC above benchmark	(38.59)	(39.12)	24.17	(53.07)	32.51	(54.46)	37.5	11
12	Transmission and distribution cost	51.46	62.59	6.42	75.81	0.52	24.95	46.2	12
13	Gas Internally Consumed	1.71	2.38	7.63	5.13	-	1.42		13
14	Depreciation	21.99	23.25	2.76	29.12	3.41	7.14	32.5	14
15	Contributions to WPPFI / Other charges	0.42	5.54	1.65	19.07	3.20	9.62	2,291.0	15
16	Ration to SSCSTL (RCA)	20.36	22.52	9.17	28.23	10.53	7.75	38.2	16
17	Total operating expenses	762.91	851.48	458.79	1,024.46	420.50	231.55	29.2	17
18									18
19	Surplus/(Shortfall) in Gas Operations	(72.05)	(55.41)	(65.46)	(108.88)	(47.14)	(317.83)		19
20	Subsidy for LPG Air Mix Projects over & above gas operations	2.94	3.60	-	4.85	-	1.90	61.2	20
21	Total shortfall in Revenue Requirement of Natural Gas Tariff		58.42	65.46	313.73	47.14	503.73	1000.0	21

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT SHOWING REVENUE
REQUIREMENT OF RLNG CUSTOMERS

S.No.	DESCRIPTION	Petition ERR FY 2021-22	Determination ERR FY 2021-22 dt: 17-03-2021	Review Petition FY 2021-22	Petition ERR FY 2022-23	S.No.
1	Sales volume in MMCF	26,365	26,365	70,241	66,336	1
2	Energy Sale in MMBTU	25,732	25,732	73,337	69,985	2
3	Total RLNG Energy in MMBTU	462,090	462,090	509,694	462,090	3
4	<u>(Rupees in million)</u>					4
5	<u>OPERATING REVENUES</u>					5
6	Gas Sales Revenue	105,906	105,906	186,369	164,895	6
7	Recovery of TSA charges	19,510	19,510	19,510	21,702	7
8	RLNG Transportation & Other Income	9,439	9,324	14,107	7,674	8
9	Total operating revenues	134,855	134,740	219,985	194,271	9
10	<u>OPERATING EXPENSES</u>					10
11	Cost of gas sold	112,451	114,503	204,887	171,722	11
12	TSA Charges	19,510	19,510	19,510	21,702	12
13	U/G adjustments on RLNG volume handled basis being billed	10,192	-	12,320	15,021	13
14	Transmission and distribution cost	218	3,272	3,272	241	14
15	Gas consumed internally	2,052	-	3,888	-	15
16	Depreciation	1,467	1,409	1,409	1,577	16
17	Contribution to WPPF / Other charges	743	-	841	1,018	17
18	Return to SSGCL (ROA)	4,938	4,622	4,675	4,774	18
19	Total operating expenses	151,571	143,316	250,803	216,056	19
20	Total Shortfall in Revenue Requirement of RLNG Tariff - Rs Million	16,715	8,575	30,817	21,784	20
21	Total Shortfall in Revenue Requirement of RLNG Tariff - Rs per MMBTU	36.17	18.56	60.46	47.14	21

SOUTHERN GAS COMPANY LIMITED
FIVE YEAR CAPITAL EXPENDITURE PLAN

Annexure-B

S. NO	DESCRIPTION	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	TOTAL FY 21-25 to FY 2025-26
		Revised		Projected			
1	A. TRANSMISSION NETWORKS						
2	A.1) ONGOING PROJECTS						
3	12" dia x 244 Km DPL, Rakhali - Jinnah and Intelligent Piggling	377,000					377,000
4	Construction of Submarine gas cross-over, Injelsa, culverts etc	146,000					146,000
5	98" Dia x 28 Km Pipeline from Aqeesa Gas Field	4,600	19,000				23,600
6	30" dia x 125 Km Gas, 1.6 Km; Pipe one from NMS V-3-J1 University to SARS Pakhwa	1,040,000	7,216,000				8,256,000
7	Check, Modification facility at Sandhokar for Gantt, South Field Gas Measurement	77,000					77,000
8	Check Metering Arrangement at Dera		17,000				17,000
9	24" dia x 31 km; from the flow station to Surjan High Pressure Trans Line		1,995,000				1,995,000
10	Sub-Total	660,000	9,217,000				10,877,000
11	A.2) NEW TRANSMISSION PROJECTS						
12	60" dia x 14 Km loop between Nara - Soan						
13	42" dia x 52 Km loop between Nara - Soan - Nara						
14	42" dia x 125 Km - from Pak and to Faisalabad	147,000	210,000				357,000
15	42" dia x 131 Km - from Hydro field to Rawatshah	134,000	527,000				661,000
16	Tie-in & loop at Bin Qasim & Pakland	128,000	71,000				200,000
17	Compression at Rawatshah (1000 - 2000 psi)						
18	at Nara (1000 - 2000 psi) at Rawatshah						
19	30" dia x 37 Km from CTS Bin Qasim to NGA Pakland	415,000	3,207,000				3,622,000
20	Future extension of CTS Bin Qasim - RING		433,000				433,000
21	Sub-Total	623,000	3,917,000				4,540,000
22	A.3) UNDER PLANNING PROJECTS - NORMAL						
23	Replacement of 36" Dia ILDP with 20" Dia (180 KM) Pipeline from HQT-2 to J-1		11,433,000	3,225,000			14,658,000
24	Acquired Modification of Nara - (Packing & Regulation Station)		65,000				65,000
25	30" Dia x 102 Km Pipeline Project for the Mugh Gas Field		22,000	2,440,000			2,462,000
26	SCADA System	48,750					48,750
27	Upgradation of SRS Thapa	168,000					168,000
28	Upgradation of SRS Faisalabad		126,000				126,000

SUTISOLTIERN CANAL COMPANY LIMITED						
FIVE YEAR CAPITAL EXPENDITURE PLAN						
Annexure-B						
S. NO	DESCRIPTION	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Rs million
		Revised	Projected			FY 21-22 to FY 2025-26
55	10-1 PG Air Mix Projects Existing/New					
56	D.1) Gavadar					
57	D.2) Surab					
58	D.3) Kusle	6,780	20,000			135,380
59	D.4) Kut Ghulam Sultanmazar					
60	D.5) Awaraz					
61	D.6) Bala & others					
62	D.7) Ghole, Ollu Gaifajale, Zanolai, Khatam, Koochi Tirkent, Abuzdar, Pongtor, Chagzi Lalal, Windaraso					
63	Total - 1 PG Air Mix Projects (D)	6,780	20,000			
64	GRAND TOTAL (A+B+C+D)	16,813,299	8,758,000			135,380
						50,156,797

SUI SOUTHERN GAS COMPANY LIMITED
ESTIMATED PRESCRIBED PRICES

Rate Rs per MMBTU

CATEGORY OF CONSUMERS	PRESCRIBED PRICES <i>effective from 01-07-2022</i>	Price Adjustment	ESTIMATED PRESCRIBED PRICES <i>effective from 01-07-2022</i>
	as per determination dated 17 Aug 2021		
<u>DOMESTIC CONSUMERS</u>			
<u>a) Standalone meters:</u>			
<u>b) Religious places: Mosques, churches, temple, madrasas and hostels attached thereto:</u>			
Up to 50 CM per month - All off-takes at flat rate of	779.88	-	779.88
Up to 100 CM per month - All off-takes at flat rate of	779.88	-	779.88
Over 100 CM per month - All off-takes at flat rate of	779.88	-	779.88
Over 200 CM per month - All off-takes at flat rate of	779.88	-	779.88
Over 300 CM per month - All off-takes at flat rate of	779.88	-	779.88
Over 400 CM per month - All off-takes at flat rate of	779.88	-	779.88
Minimum charges (Rs. per month)	172.58	-	172.58
<u>c) HOSTELS & RESIDENTIAL COLONIES-BULK METERS</u>			
All off-takes at flat rate of	779.88	-	779.88
Minimum charges (Rs. per month)	3,900.00	-	3,900.00
<u>SPECIAL COMMERCIAL CONSUMERS (Roti Tandors)</u>			
Up to 100 CM per month - All off-takes at flat rate of	779.88	-	779.88
Over 100 CM per month - All off-takes at flat rate of	779.88	-	779.88
Over 300 CM per month - All off-takes at flat rate of	779.88	-	779.88
Minimum charges (Rs. per month)	148.50	-	148.50
<u>COMMERCIAL CONSUMERS</u>	779.88	538.90	1,318.78
Minimum charges (Rs. per month)	6,415.00		6,415.00
<u>ICE FACTORIES</u>	779.88	538.90	1,318.78
Minimum charges (Rs. per month)	6,415.00		6,415.00
<u>INDUSTRIAL CONSUMERS</u>	779.88	538.90	1,318.78
Minimum charges (Rs. per month)	35,540.00		35,540.00
<u>ZERO-RATED SECTORS AND THEIR CAPTIVE POWERS</u>	779.88	538.90	1,318.78
Minimum charges (Rs. per month)	27,616.00		27,616.00
<u>C.N.G STATIONS</u>	779.88	538.90	1,318.78
Minimum charges (Rs. per month)	45,521.00		45,521.00
<u>CAPTIVE POWERS</u>	779.88	538.90	1,318.78
Minimum charges (Rs. per month)	36,653.00		36,653.00
<u>CEMENT FACTORIES</u>	779.88	538.90	1,318.78
Minimum charges (Rs. per month)	45,588.90		45,588.90
<u>PAKISTAN STEEL</u>	779.88	538.90	1,318.78
Minimum charges (Rs. per month)	35,540.00		35,540.00
<u>FAJRI FERTILIZER BIN QASIM LIMITED</u>			
Feed stock for fertilizer	779.88	-	779.88
Power generation	779.88	538.90	1,318.78
<u>EXISTING POWER STATIONS</u>	779.88	538.90	1,318.78
Minimum charges (Rs. per month)	28,898.00		28,898.00
<u>INDEPENDENT POWER PRODUCERS</u>	779.88	538.90	1,318.78
Minimum charges (Rs. per month)	28,898.00		28,898.00

Note:

- Upward adjustment of Rs 538.90 per MMBTU for FY 2021-22 has been re-worked at Rs 538.90 per MMBTU with the consideration that effect of price adjustment not to pass on to domestic, special commercial (roti tandors) customers and feedstock of fertilizer industry. However, OGRA & GOP are authorized to rework these minimums according to their policies and as per the provisions of Section 3 of OGRA Ordinance, 2002 (XVII of 2002).
- Minimum charges as per consumer price notifications dated 23 October 2020 issued by the Authority.

ANNEXURE - D

BASIS & ASSUMPTIONS OF PETITION FOR ESTIMATED REVENUE REQUIREMENT (ERR) FOR FY 2022-23

Assumptions – Indigenous Gas Business:

A) Tariff

The Company as a prevailing practice prepares its Petitions while calculating the Operating Revenues from gas sales in Revenue Requirement on the basis of prevailing Prescribed Prices. However, the average prescribed price determined by OGRA through DERR FY 2021-22 dated: 17 August 2021 is Rs. 779.88 per MMBTU which cannot be recovered as average sales price as per the latest consumer price notification dated: 23 October 2020 is Rs. 712.12 per MMBTU which is lower than the average prescribed price. Therefore the estimated operating revenues from gas sales have been accounted for on the basis of said consumer price notification.

Due to substantial delays in the issuance of selling price notifications by the FG, a receivable balance of Gas Development Surcharge (GDS) accumulated to the tune of Rs. 140 billion up to 30 June 2019 (already determined by OGRA) and will further accumulate to Rs. 214 billion as per the Petition for Final Revenue Requirement for FY 2019-20. The Company has no choice to finance by borrowing funds from financial institutions on commercial basis or managing by holding payments of major creditors – GoP owned E&P Companies i.e. OGD, PPL, GHPL for smooth running of its operations. In view of the above considering actual finance cost, the Company has claimed entire financial charges from FY 2016-17 and onwards.

Apex Court has granted stay to certain industrial consumers on Authority's consumer price notifications. While working out the Sales Revenue, the impact of these stay orders have been accounted for in the subject petition.

B) Operating/non-operating incomes

OGRA through its letter OGRA-10-2(5)/2018 dated: 1 June, 2018 had approved the New Tariff Regime under which revenues i.e., profit from Meter Manufacturing, Sale of LPG and NGL have been allowed 50% operating and 50% non-operating whereas rest of the incomes are treated as operating.

In the - subject Petition, 50% of the Profit from Meter Manufacturing business has been claimed as non-operating income.

The estimates from LPG and NGL Income have not been incorporated in the - subject Petition owing to the reason that the related agreement signed between SSGC and JVL pursuant to Supreme Court of Pakistan Order dated 4 December 2018 had been expired in June 2020. The agreement was valid for a period of 18 months starting from January 2019. However, if any agreement will be signed in future, the LPG & NGL income estimates will be accounted for and claimed from OGRA in the revised estimates or at the time of Final Revenue Requirement Determination for the respective period.

C) Matters under Litigation for Operating/non-operating incomes & UFG

Sindh High Court (SHC) vide its decision dated: 25 Nov 2016 dismissed all the stay orders granted to the Company relating to operating/non-operating incomes & UFG matters, an appeal in the Supreme Court of Pakistan (SCP) is pending relating to the said issues. The subject petition may be amended as a consequence of decision by the Supreme Court of Pakistan.

D) Gas availability

The gas availability of 350,480 MMCF or 960 MMCFD for FY 2022-23 have been worked out considering take and/or pay and projected gas off takes from the existing and new gas fields and it has envisaged that it will decrease by 4.5% over FY 2021-22 estimates of 367,031 MMCF or 1,006 MMCFD

The gas availability from new/anticipated gas field is mentioned below:

Gas Fields (anticipated)	(MMCFD)	Starting Dates / Remarks
Suleman	21	Gas flows from these fields were envisaged during FY 2020-21 & 2021-22 as well but not realized, expected gas flows effective Jul - 22
Hadaf X-1 / Badeel X-1	11	
Sinjhoro (anticipated increase)	15	
Badin-IV North (Zainab)	2	Jul - 22
Total	49	

E) Cost of Gas

The cost of gas purchased is based on projected wellhead gas prices effective July 2021 worked out on estimated average G&F price for Crude Oil at US\$ 85.88 per barrel and HSFO US\$ 503.69 per metric ton.

Oil Prices Assumption:

(i) Crude oil average prices are taken based on forecast of monthly average from Dec 2021 to Nov 2022 applicable for the period Jul 2022 to June 2023; international market price available on the following link:

Source:

<https://longforecast.com/oil-price-today-forecast-2017-2018-2019-2020-2021-brent-wti>

(ii) whereas, for HSFO prices a three years trend from Dec 2018 to Sep 2021 reveals an escalation by 2% per month on actual monthly prices which has been applied on the OGRA determined (OGRA determination dated: 17 August 2021) figure of HSFO for the period Jun 2021 to Nov 2021 which was US\$ 434.28 per metric ton.

Rupee w/s US\$ parity has been kept at Rs. 190 for the said year using the projections given at State Bank of Pakistan link given below:

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<https://www.sbp.org.pk/ecodata/rates/m2m/Nov/19-Nov-21.pdf>

A twelve months forecast is available from Nov 2021 to Nov 2022 on the above web-site which has been further escalated by 0.64% based on per month forecasted average trend shown during the said period which has been evenly applied from May 2022 to June 2023.

Any material variations in the Crude Oil/ HSFO prices and Rupee v/s US\$ parity will be taken up with the Authority in the mid-year review petition as per the provisions of the OGRA Ordinance, 2002.

Projected weighted average cost of Gas has thus been worked out at Rs. 772.60 per MMBTU for FY 2022-23 as compared to cost of gas worked out in the DERR FY 2021-22 of Rs. 638.79 per MMBTU.

F) Un-accounted For Gas (UFG)

UFG for indigenous gas has been projected at 13.98% i.e. 49,000 MMCF versus benchmark of 6.30% i.e. 5% + 50% of 2.6%. The said benchmark is subject to adjustment at the time of Final Revenue Requirement (FRR) based on actual performance related to achievement of Key Monitoring Indicators (KMIs).

Even after the commissioning of 42" Dia. RLNG dedicated line, SSGC had been forced and may still be forced to swap gas / consume RLNG in its system due to following reasons inter alia:

- Inaccurate demand planning/forecasting by power division which results in situations where the available RLNG quantity exceeds the actual demand of the RLNG based power plants installed in SNGPL's franchise area. Consequently, the gas has to be absorbed in SSGC system in order to save the integrity of pipelines and terminals besides minimizing the commercial/ financial obligations, which may arise due to non-compliance of ordered quantities of LNG, and
- Construction of SSGC's 30" diameter x 125 Km pipeline (SMS Sindh University to SMS Pakland) has been severely delayed by more than 5 years due to the unavailability of requisite permissions/ NOCs/ transfers of the land required for development of pipeline ROW. In the absence of the said pipeline, SSGC has been forced to continue the RLNG swap arrangement since the Indus Left Bank Pipeline System lacked sufficient capacity to cater transportation of gas fields located in Northern part of Sindh towards the consumption centres in the Southern Sindh i.e. Karachi and Hyderabad. NOC for the portion of ROW owned by the Government of Sindh has been granted in January 2021.

Accordingly, the UFG has been worked out at 6.21% on volume handling basis and the impact of the differential of Rs. 15,021 billion has been claimed in the revenue requirement of RLNG.

The OGRA Ordinance under Section 6 (2) (p) authorizes OGRA to (by Rules) fine for contravention of the Ordinance, rules, regulation, terms and conditions of the license and the decisions of the Authority.

Penalty as mentioned above has been specifically prescribed by OGRA in Rule 20 of the Natural Gas (Tariff) Rules 2002, which lays down that a maximum of Rs. 750 Million for a continuing default in a financial year may be imposed. Rule 20 is clearly all encompassing in that all violations of the statute, rules, regulations, license, as well as orders, determinations, instructions etc. issued by the Authority, i.e. OGRA, are covered by it.

Notwithstanding to the fact that we understand that inability to meet benchmarks is not violation of Statute etc, it is submitted that to date OGRA has penalized the Company in respect to UFG losses by forcing to bear the cost of the UFG that is over and above the "benchmark" set by it, and the amounts so adjusted from revenue requirements are far more than the amount that has been prescribed for violation of statutory provisions. Accordingly, UFG disallowance (for indigenous gas business) if any is requested to be Rs. 750 million.

STRATEGY FOR UFG REDUCTION

It is important to mention that the company does not operate as a full scale commercial entity and has to fulfil the socio-economic agenda of Government of Pakistan, which includes providing natural gas to less profitable sectors (domestic), which are also more prone to the menaces of UFG at the cost of compromising more profitable sectors i.e. industrial and bulk sectors, especially during the winter season. Besides, supplying gas to Baluchistan under the prevailing Tariff regulations (especially the slabs system) has resulted in promoting theft through meter tampering. It is important to note that the basic premise of using the slabs based tariff was that the consumers having large gas consumption would be able to pay higher rates due to comparatively higher standard of living. Unfortunately, in Baluchistan where the gas is a necessity for space heating during extreme winters, this tariff regime adversely affected the general public whose standard of living and capacity to pay was (and still is) comparatively below that of other consumers in various other areas of franchise. Hence, in Balochistan region, gas consumption cannot be related with income class. Rather, the consumption is directly related to the weather conditions of respective areas. Resultantly, tampering/ bypassing/ damaging of gas meters is a commonplace practice (particularly in Balochistan where UFG remains above 50%) as an attempt to keep the billing within affordable slabs, especially, during the winter months. Through rigorous analysis, SSGC has developed a number of proposals aiming to resolve the extraordinary operational problems in the region by addressing the root causes of the severe losses and extremely high UFG. The proposals have been submitted before the Ministry of Energy and other competent forums through formal communication and presentations.

Another major detriment to the UFG reduction activities is the operation of SSGC's distribution network on RLNG. It has been brought under the attention of OGRA and MoE (Petroleum Division) through a number of communications that UFG in SSGC system is adversely affected with the introduction of RLNG into the distribution network owing to a number of technical and operational reasons. Since 2015 (i.e. the advent of RLNG in Pakistan), SSGC has been forced to absorb RLNG into its franchise area in order to support swapping arrangement with SNGPL. This swapping arrangement was enforced on SSGC till 2018 as there was no pipeline arrangement to transport RLNG to the Sui Northern franchise. Afterwards, RLNG was transported directly to SNGPL through the newly laid pipeline. Despite this, SSGC is still forced to resort to swapping of gas reasons already mentioned above.

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On the other hand, the Company is continuously taking up the matter of adverse implications of RLNG handling in SSGC system with the Authority; however, no fruitful results have been achieved so far. It is also pertinent to mention that the matter of UFG allowance on RLNG volume handling basis was taken to the Economic Coordination Committee (ECC) of the Cabinet which issued policy guidelines in the matter and MoE communicated the decision to OGRA to compute UFG on volume handling basis. However, OGRA has not implemented the ECC decision.

Despite the above described limitations which are beyond the operational control of SSGC, the company's Board of Directors and Management have been taking focused and drastic measures to address this complex and multi-dimensional problem. For the specific purpose of reducing and to maintain focus on UFG reduction strategies and action, SSGC's BOD has established a separate UFG Division under a DMD level officer that is designated specifically to control the UFG. Through this cross functional division, it is intended to synergize various UFG reduction activities across the Company under a single umbrella so that a higher degree of focus and monitoring capability can be achieved and remedial actions can be taken promptly. Accordingly, functions like CGTO, Measurement, Research and Development and Meter Plant are now reporting to SGM UFG – Division.

While taking into consideration all such functions/ activities which can have an impact on the UFG, a comprehensive UFG reduction strategy has been prepared which has also been approved by the ECC. Accordingly, 3-year targets for UFG reduction have been developed along with the plans to achieve the same.

Pursuant to aforesaid 3-years plan, during the FY 2020-21, the saving recorded was 13.08 BCF versus target of 13.46 BCF (based as per previous RLNG allowance). The substantial savings have been brought about by enhanced efforts in the implementation of UFG reduction activities. However, in November 2020, OGRA has unilaterally decided (with retrospective effect from August 2020) to cap the recoverable RLNG UFG losses at a benchmark level of 6.30%, in contravention to the ECC guidelines which allowed the Sui Companies to charge UFG at last year's UFG percentage. Application of this modification, which is against the ECC guidelines, results in smaller numbers of UFG savings i.e. at 6.3% RLNG UFG recovery basis, SSGC's UFG savings for FY 2020-21 are limited at 5.91 BCF.

Counter Gas Theft operations (CGTO) has been focusing on gas theft in Industrial and Commercial sector. In this regard, an SSGC Police station has effectively been functioning in Karachi and further case on establishment of dedicated Police Station in Quetta is in final stages of contracting. Special Courts (27 No. in Sindh and 11 No. in Balochistan), have been established to prosecute gas theft cases only and till now 400 cases are under trial and 671 FIRs have already been registered. However, special laws for gas theft in domestic sector are yet to be finalized at Government level before implementation. The CGTO department has been following an expedited plan to perform detailed survey of the industrial consumer sites for the purpose of locating gas theft practices and taking subsequent actions. Total of 1556 industries have already been surveyed and it is planned to complete industrial survey of all industries by 2022. Additionally, focused advertisement campaigns have been launched in the print and digital media to create deterrence against gas theft and for creating awareness regarding possible stern punishments as per law.

Unauthorized consumption of pipeline gas in the domestic sector (through makeshift connections/tapings/ tubing etc.) is one of the major concerns pertaining to UFG. This unlawful practice is observed generally in all cities of SSGC's franchise area, particularly in Karachi, especially in non-regularized/ unleased / illegally occupied premises such as Kutchi Abadies, China Cuttings, and properties built on encroached lands of the city. Additionally, localities with below-par socio-economic development, and residential areas, which are being developed in the city outskirts, are also susceptible to this problem. Moreover, several high-rise multi-story residential buildings have been constructed in recent years, many of which are unauthorized and lack the requisite 'No-objection Certificate (NOC)' from Sindh Building Control Authority (SBCA). Residents of such buildings have been observed to be using gas from unauthorized means as valid connections could not be obtained in the absence of regularization documents.

Frequent raids and periodic surveys are being performed to remove such illegal connections while ensuring accountability as per the applicable law. However, recurrence of such connections is a common phenomenon, and thus this practice has not proved to be effective in fetching the desired results of curtailing the unauthorized usage of gas in the domestic sector. The number of non-customers utilizing the pipeline gas through unlawful means has been piling up and is currently estimated to be between 500,000 and 700,000 as the Sindh Building Control Authority has prohibited the provision of utility services to any premises unless its Completion Plan has been approved by the Authority.

Previously, gas losses of PKR 6-8 billion were allowed by OGRA against gas theft claims. However, after the implementation of KMI model, the allowance has been reduced to only 2.6% which is subject to the achievement of KMIs. Hence, the volume of gas lost due to unauthorized usage ends up exacerbating SSGC's UFG figures. In order to tackle the above described challenge, "Non-Customers Gas Claim Framework" has been developed to raise claim against unauthorized usage of gas by non-customers. Details of this initiative have been explained to the different levels of the Authority through various written and in person communications.

For the FY 2022-23, SSGC plans to complete 85 Nos. of segregation schemes. The exercise of network segmentation is vital for effective monitoring, management and control of the distribution network. The segregation schemes have been assigned a priority order based on the quantum of UFG in particular geographical/ network section. During the first phase, focus will be on the schemes aimed at separating the domestic from industrial sector as it enables effective control and ability to operate the segregated domestic sector at lower (optimum) pressure levels. Thus, reducing the quantum of possible gas leakages and mitigating the possibility of sanctioned pressure violations by domestic consumers. In subsequent phase, the segregated domestic and industrial sectors would be further segmented with the objective of attaining enhanced operational control for reduction of UFG. Rehabilitation of mains and services 680 KM distribution network is planned for FY 2022-23. Majority of the network identified for rehabilitation is quite old and assessed to be prone to leakages. Successful completion of rehabilitation works is expected to result in substantial UFG savings of around 470 MMCF. Obtaining NOCs pertaining to road cutting from different local Authorities for performing rehabilitation & gas leak rectification in timely manner have

become a big challenge for SSGC. Due to this particular issue many critical schemes get delays and eventually results in loss to the Company in terms of UFG. Successful implementation of rehabilitation works would also enable SSGC to operate the network at better pressures and solve the low-pressure complaints from the customers.

Focused drives will be initiated to identify and rectify the underground and overhead leakages. UFG savings of over 1,236 MMCF are expected from the same. Efforts to mitigate and deter gas theft practices especially in industrial and commercial sectors will be further enhanced. Substantial UFG savings of 581 MMCF is expected. Improving the accuracy of measurement is planned through effective replacement program of aging domestic gas meters and enhanced quantum of meter proving/ calibration of the industrial meters. UFG saving of 4,752 MMCF is expected from this activity.

New Innovative Solutions for Distribution Pipeline Integrity and Operations:

The following new initiatives have been envisaged as Pilot Projects and there progress is also mentioned herein

Rehabilitation using hydraulic / pneumatic pipe bursting technology:

Pipeline rehabilitation can be expedited using hydraulic / pneumatic pipe bursting technology that replaces old, undersized pipes with new HDPE pipes saving on ditching, NOCs / Permits and backfilling costs. In this regard, meetings have been held with several international companies wherein it was concluded that a practical demonstration would be prudent before any commercial commitments. Modalities of executing the planned demonstration are being finalized.

Leak Repairs using pipeline liners

Additionally, other innovative methods of trenchless rehabilitation through reinforcement using a flexible pipeline liner will be applied. The liner contains aramid fabric which is heat resistant and a strong synthetic fibre. Continuous lengths of 2.5 km can be achieved in one go. Sessions held with various international vendors where it was concluded that the technology is suitable for medium to high pressure gas mains with long, branchless stretches. Usefulness of this technology in SSGC's network is being evaluated.

Smart Balls / Pipers technology

Out of the box solutions such as the Smart Balls or Pipers are being explored for Theft detection. These balls can float freely inside pipelines previously considered unpiggable or inaccessible - with no special teams. Smart Balls are suited to access all pipelines of any material, even those as small as 2" inch. They are equipped with multiple sensors to collect & monitor pressure data, gas leaks, illegal tapping and metal loss etc.

Meetings held with international vendor where practical demonstration was requested however they regretted that no footprints of their technology suppliers are available in Pakistan or the Asian region. Therefore, a substitute technology of "In-line Pipeline Inspection Cameras" for live gas mains monitoring has been explored. The camera can travel up to 200 meters in live gas mains of up to 60 PSIG with dia. ranging from 2" to 8". It has been suggested to insert the cameras in over-head pipelines at CMS of Industrial Customers, and inspect pipeline upstream of meter for suspected gas thefts/illegal tapings/off-shoots etc.

The MAJOR ACHIEVEMENTS of the company are summarily enumerated below:

- The Company KMI achievement ranges to 95% whereas OGRA allows 76% only.
- During FY 2020-21, UFG savings were recorded at 13.08 BCF versus target of 10.48 BCF.
- Major drive conducted for separating industrial customers from domestic network to enable operation at optimum pressures and thus reducing UFG.
- Counter Gas Theft Operations in 2020-21: Overall 2,310, and 584 Counter Gas Theft Operations were carried out against Registered and Unregistered customers respectively resulting in registration of 99 FIRs and claiming of 1,368 MMCF.
- SSGC launched mobile application for convenience / easy services.
- Simple procedure for a domestic gas connections introduced eliminating contractors role.
- Enhanced network visibility - Right sized meters, EVG, and modems have been installed at all SMSs and most of the TBSs & PRSs. A number of remote custody transfer stations have been brought online for enhancing monitoring capabilities.
- Finality for dedicated SSGC Police Station establishment in Quetta, proposal already approved by Chief Minister Balochistan.
- SSGC has recently signed an MOU with SNGPL, vowing to work towards exploring the possibilities of establishing of a new meter manufacturing company on joint ownership basis. The new company is envisioned to have sustained profitability, larger scale and ability to enter global markets through exports.
- Substantial ground has been covered towards complete localization of gas meters produced by SSGC for domestic installation. The implementation will lead to significant reduction in foreign exchange expenditure.
- The company stays focused on reducing costs and improving efficiencies.

Major initiatives for UFG Reduction are sustainable with persistent results ensures control, monitoring, transparency, audit, and governance.

Majority of above actions only bring marginal improvements in SSGC UFG figures. Whereas, largest impact can be achieved through resolution of major issues of Balochistan UFG, RLNG Volume Handling Disallowance and Unauthorized gas usage in domestic sector of Karachi Region. These issues are largely outside SSGC's operational control and are severely impacting the company's financial proposals.

An amount of PKR 7,697 million is envisaged to cater Capital Expenditure and PKR 1,756 million for revenue expenditure (total = 9,453 Million) in order to obtain the above described targets.

UFG CONTROL EXPENDITURES

(A) Capital Expenditures		
(I) Transmission - Other Assets		Rs. Million
i)	Plant & Machinery	288
ii)	Tools & Equipment	116
iii)	Transport	713
Sub-total		1,117
(II) Gas Distribution System		
i)	Rehabilitation Mains and Services Replacement UFG Control Program	3,967
ii)	Replacement /Repair of Undersized Meters	2,080
iii)	Segmentation	173
iv)	Construction of CMSs, TBSs, and TRSs	380
Sub-total		6,580
TOTAL		7,697
(B) Revenue Expenditures		
i)	Repair & Maintenance	1,424
ii)	Stores and Spares Consumed	252
iii)	Security Expenses	80
Sub-total		1,756
(C= A+B) Grand Total		9,453

G) Operating Costs:

i) HR Cost:

Estimated HR benchmark cost of Rs. 17,187 million has been worked out for FY 2022-23 based on the Authority's HR Benchmark formula applied for calculation of provisional estimated HR cost for FY 2021-22. The Company has taken the actual determined base year FY 2019-20 and re-worked the projected HR Benchmark for FY 2021-22 and FY 2022-23.

However, the arguments forwarded in MFR FY 2021-22 dated: 20 September 2021 remains in field i.e.:

- In-correct inflated estimated numbers of Pipeline Network and Number of Customers have been taken while calculating HR Benchmark in DERR FY 2021-22 dated: 17 August 2021
- The CPI factor is to be allowed to the Company
- HR benchmark cost needs to be revised in addition to the above determination of HR cost in the light of judgements to regularize third party workforce

Therefore, the Authority is requested to allow HR benchmark cost i.e. Rs. 17,187.

ii) Gas Consumed Internally:

Calculated based on estimated volumes of gas internal consumption for FY 2022-23 valued at WACOG of indigenous gas at Rs. 772.60 per MMBTU.

iii) OGRA Annual Licence Fee:

Under License Condition No. 6, SSGC is obligated to pay annual license fee for any particular year at the beginning of the financial year on the basis of 0.5% of reasonable estimates of annual turnover from the regulated activities. Licencing Rules 2002 defines Annual turnover means "the actual turnover less amount representing, Sales Tax, Gas Development Surcharge and other such charge, levied, duties taxed or ceased imposed by the Federal Government and cost of Natural Gas". In the present situation wherein OGRA notified consumer prices are fetching average (Rs. 712.12/MMBTU) on lower side as against the prescribed prices (Rs. 779.86/MMBTU) & even against the cost of gas (Rs. 774.54/MMBTU), turnover as per the above definition works out to be negative. Owing to this no license fee would be payable unless FG/OGRA revises the consumer prices upwards. However, a provision of Rs. 91 Million has been envisaged in the instant petition based on the prescribed prices determined by OGRA as per the DERR for FY 2021-22 dated 17 August 2021.

iv) Provision for Doubtful Debts - Compliance / Implementation of IFRS 9 - 'Financial Instruments':

In terms of mandatory compliance / implementation by Securities and Exchange Commission of Pakistan SRO 1007(I)/2017 dated 4 October 2017 to be read in conjunction with SRO 229 (I)/2019 dated 14 February 2019, International Financial Reporting Standard (IFRS) - 9 'Financial Instruments' has become effective for Reporting period / year ending on or after 30 June 2019 and has been applied by SSGC on its financial accounts for FY 2018-19 and onwards.

Background / Explanation

Kindly note that the Authority under this head has taken several turns relating to its directives, it had not been allowing live consumers provisioning, since several past years the Authority has been allowing a ball park figure of Rs. 146 million, then it emphasized that the Company has to go through disconnections and disconnected consumers will be allowed, then the Company focused its efforts on disconnections of consumers, OGRA gave another policy for disconnected domestic, commercial and industrial connections in its DERR FY 2014-15. Then in its determination for ERR FY 2021-22, the Authority altogether rejected the Company's claim of even disconnected consumers. Further, the Company has been left aside relating to IFRS 9 i.e. Expected Credit Loss (ECL) adoption. Therefore, the Company is in confusion as to how to deal with this head of account relating to OGRA's determinations in this regard.

Disconnection criteria currently followed by SSGC is default amount exceeding Rs. 3,000 and default period exceeding 3 months in case of domestic customers and for commercial customers' default period exceeding three months and unsecured customers are also liable to be disconnected.

Recovery Department is making all out efforts to reach maximum number of defaulters to make payment. The tools available to compel customers for making payment are through disconnection of gas supply by meter locking and meter removal. SSGC disconnects gas supply of the customers in order to recover the outstanding balances from defaulters.

Disconnected customers then approach for payment of outstanding amount either in full or through installments and get the gas supply restored as per policy. If the gas supply is not disconnected, defaulters do not make payment of outstanding balances, thus it will keep on increasing every month.

Recovery Department continuously tries to recover the outstanding balances against customers as per available resources. The last three years data of disconnection and reconnection is tabulated below;

FY	Disconnection		Reconnection	Payment	Engaged	Total
	Nos.	Rs. Million	Nos.	Rs. Million		
2018-19	318,202	4,234	144,053	1,493	1,927	3,420
2019-20	267,356	3,876	132,466	1,223	1,683	2,906
2020-21	213,643	5,121	113,189	1,291	1,841	3,132
Total	799,201	13,231	389,708	4,007	5,451	9,458

During last three years (2018-19, 2019-20, 2020-21) 799,201 defaulters with outstanding amount of Rs. 13,231 million were disconnected, 389,708 customers got their gas connection restored and made payment of Rs 4.007 million with Rs 5,451 million engaged amount. Recovery Department ensures the payment of engaged amount through allowed installments and requests for installments are received from the customers. Moreover in some cases undertaking from the defaulted customers are also acquired.

Defaulters increased mostly during the year 2019-20, due to suspension of work during lock down period on management directives to "Work from Home" from March 2019 to August 2020. Government had also allowed installments to customers during lock down with instructions not to disconnect the gas supply of defaulters. Recovery Department also changed its policy of disconnection from disconnecting defaulter with continuous three months of default to six months of continuous default due to increase in number of defaulters and resource constraint.

INITIATIVES FOR RECOVERY

1- SSGC has initiated process for sharing of defaulter's data with credit bureau licensed by SBP under Ease of Doing Business plan of Government. Data will be shared under notification of SRO 737 (I)/2020 published in The Gazette of Pakistan. The credit bureau will share the data of defaulters with the banks and other credit institutions. The Defaulters will be black listed in the ECIB report on non-payment of the outstanding amount and will not be able to avail any credit facility from financial institutions.

2- Recovery of outstanding dues was outsourced to Recovery firms in the past. Performance of Recovery firms was not satisfactory and accordingly it was discontinued.

SSGC has now reinforced the recovery of outstanding dues from live and disconnected defaulters through a well-planned persuasion drive to motivate the defaulters to make payment of outstanding balances. Initially we have planned for this recovery drive in two billing zones of Karachi. During the persuasion drive, Recovery Department will visit door to door of live and disconnected defaulters for total screening of the area/ zone in order to persuade them for making payment.

In addition to the above, Recovery department ensures the recovery of the Domestic bulk and Domestic Govt. customers through issuing disconnection notices, using print and electronic media and coordination with the govt. officials and parent department for releasing the funds and pursuing for making the payment from their offices.

The Recovery department faces difficulties in recovering the dues from Armed forces, rangers, police, Govt. offices, Hospitals and areas where poor law and order situation persists. Besides all of these factors, the Recovery Department is using its all-out efforts for recovery of outstanding dues from the defaulters.

In the instant petition the total provisioning amounting to Rs. (2,751 million) 1,836 million for disconnected consumers and Rs. 925 million for live consumer have been estimated / claimed for all customers' categories under ECL method.

OGRA is requested to re-align the regime with other Regulators (especially SECP), because SSGC is obligated to comply the directions made by SECP.

v) Other operating Costs:

Other T&D cost estimates are primarily based on best estimates keeping in view the increase in prices owing to inflation.

H) Addition to Rate base / Physical Targets

During FY 2022-23 the Company plans to capitalize around Rs. 37.6 billion which facilitates expansion in transmission system by 147 kms and distribution network by 1,123 kms which includes mains and services by 870 kms, new towns & villages of 189 kms and major distribution projects of 64 kms. Besides this, rehabilitation of mains and services, 680 km has been envisaged for UTG control program. 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 11,355 new indigenous gas consumers and 2,130 new RLNG consumers, hence total no. of customers is expected to be around 3.6 million.

I) Air Mix LPG Projects:

As per the directives of Government of Pakistan (GoP) to supply gas to domestic consumers only as alternative to natural gas in far flung areas of Sindh & Balochistan and consequent approvals from OGRA, SSGC has installed and commissioned five (05 Nos.) LPG-Air Mix Plants in the franchise areas of Balochistan and Sindh, i.e. Gwadar, Noshki, Surab & Awaran in Balochistan and Kot Ghulam Muhammad in Sindh. In addition to the above, the Company was also directed by the Government of Pakistan (GoP) to install LPG-Air Mix Plant in Bella from its own resources. As of date, Bella plant has expected to come online in the fiscal year, i.e. FY 2021-22 (subject to the resolution of CIE licensing issues).

Installation of 30 LPG Airmix Plants – ECC Approval

Background

The Economic Coordination Committee (ECC) of the Cabinet in its meeting held on 31st October 2016 approved the summary vide case no. ECC-122/21/2016 submitted by the Ministry of Energy (Petroleum Division) regarding the installation of thirty LPG-Air Mix Plants in the provinces of Sindh and Balochistan by SSGC. The approval was communicated to SSGC vide letter No. LG-16(1)/2016-LPG Air Mix dated 11th November 2016.

In compliance with ECC directives SSGC planned to supply gas to domestic consumers only as an alternative to natural gas in far flung areas of Sindh & Balochistan. In this regard, the services of M/s ENAR Petrotech were hired through competitive bidding process for the development of EPCC tender for LPG Air Mix plants. The tender was floated three times for the realisation of project, however, in 1st attempt and 2nd attempt bidders did not meet the criteria while 3rd time bid was cancelled due to non-participation of bidders.

Current Status

The Economic Coordination Committee (ECC) of the Cabinet, in its meeting held on 26th March, 2020 in case no. ECC-98/12/202 submitted by the Petroleum Division, decided to shelve the installation of LPG Air Mix projects excluding two already completed LPG Air Mix Plants at Awaran and Bella related to SSGC. In light of this, SSGC remains unable to proceed further in the matter until revised directives are received from ECC of the Cabinet.

J) Revenue Requirement Assumptions - RLNG

Sales: The Actual sales volumes are depicted from the following table:

S.No.	FY	MMCFD
1.	2019-20	73
2.	2020-21	147
3.	2021-22 (1 st qtr)	162

Therefore, looking at the progression in sales, a volume of 162 MMCFD has been envisaged for FY 2022-23. Power is maintained at actual (132 MMCFD) for the quarter ended Sep 2021, an agreement between PLL & KE for supply of 150 MMCFD RLNG is underway when the role of SSGC is just to facilitate PLL, execution of which may alter the projections for Power sector. The sales value is computed based on the monthly Notification for Dec 2021.

Purchases: are projected on the basis of above RLNG sales demand grossed up by 12.23% UFG as per DERR FY 2021-22 dated: 17 Aug 2021, however, OGRA is considering a percentage of 6.3%. The value of purchases is computed based on the monthly Notification for Dec 2021.

Gas Internal Consumption (GIC) shall be adjusted in kind as per Gas Transportation Agreement (GTA) with SNGPL. The RLNG volume handled has been claimed at Rs. 15,021 billion.

K) Rate of Return on Assets

The Company calculated a rate of return 16.79% as against 16.60% determined by the Authority DERR FY 2021-22 dated: 17 Aug 2021. The Company has contested the rate of return in its Motion for Review petition FY 2021-22 based on the following factors.

The rate calculated by the Company considers relevant rates of KIBOR i.e. monthly averages. The cost of equity has been revised from 21.46% to 21.54% and cost of debt has been revised from 10.99% to 10.71% respectively. While working out the cost of debt the Authority changed its basis of calculations wherein as per the New Tariff Regime Proposal

implemented by the Authority monthly averages of six months KIBOR rates were considered, however, In the OGRA EKR FY 2021-22 determination dated: 17 Aug 2021 month end rates has been used for this purpose. If the rate of return would be 16.6% the return of the Company will be reduced by Rs 143 million.

The petition will further be amended by the Company based on the pending determinations by OGRA.

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SUI SOUTHERN GAS COMPANY LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2022-23
INDEX - SECTION - A

Working for Tariff Adjustment & Financial Statements

DESCRIPTION	Table #
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Profit & Loss Account	A-2

A



SUI SOUTHERN GAS COMPANY LIMITED

WORKING FOR TARIFF ADJUSTMENT REQUIRED

Rs Million

S.No.	DESCRIPTION	Period BY 2022-23	Related to Natural Gas Customers	Related to LNG Customers	Tier- No	S.No.
1	Gas Sales volume in MMCF	755,192	293,836	66,236	B-2.1	1
2	Energy Sale in MMBTU	353,024	281,040	69,985	B-2.2	2
3	Energy delivered in MMBTU			662,690		3
4	A. Net operating revenue					4
5	Gross Sales - net of general sales tax	361,821,433	197,926,213	164,895,120	B-2.3	5
6	Less: Gas Development Allowance - working	-	-	-	B-2.4	6
7	Net Sales	362,821,433	197,926,213	164,895,120		7
8	RLNG Transportation Income	7,610,199		7,610,199	B-2.5	8
9	Net Sale of Condensate	(2,977)	(2,977)		B-2.6	9
10	Motor vehicle	1,752,927	1,752,927	26,527	B-2.7	10
11	Amortization of deferred credit	620,566	581,698	38,868	B-2.8	11
12	Late payment charge	1,041,164	1,041,164		B-2.9	12
13	Motor manufacturing plant profit	148,696	148,696		B-2.10	13
14	Other income	3,009,705	1,624,144	1,385,561	B-2.11	14
15	Sub total	14,200,517	3,110,772	9,049,530		15
16	Total operating income "A"	377,021,600	303,037,410	173,944,650		16
17	B. Loss operating expenses					17
18	Cost of gas	474,319,389	263,595,660	171,721,726	B-3.1	18
19	Transmission and distribution cost	22,584,502	22,193,987	240,513	B-3.2	19
20	Depreciation	9,819,425	9,244,303	1,674,121	B-3.3	20
21	Financial charges	5,005,772	3,204,609	1,799,164	B-3.4	21
22	Other charges - excluding W.P.F.	2,854,033	3,886,031		B-3.5	22
23	Total operating expenses "B"	495,645,120	300,278,592	178,846,528		23
24	C. Profit/(Loss) before W.P.F. (A-B)	(98,623,520)	(97,241,182)	(1,421,878)		24
25	D. Less: Workers Profit Participation Fund	(4,142,310)	(4,371,247)	(71,084)		25
26	Net Profit/(Loss) before W.P.F.	(102,765,830)	(101,612,429)	(1,492,962)		26
27	E. (i) Add: Financial charges of loans / others	5,005,772	3,204,609	1,799,164	B-3.6	27
28	Net Profit/(Loss) after W.P.F.	(97,760,058)	(98,407,820)	(1,492,962)		28
29	Adjustment for UFG above benchmark	-	-	-	B-3.7	29
30	UFG adjustment on RLNG volume based basis (ring fenced)	-	15,021,485	(15,021,485)	B-3.8	30
31	Natural interest income on IAS 19 provision	-	-	-		31
32	Depreciation - GEPPL	27,596		27,596		32
33	Other expenses	50,000	50,000		B-3.9	33
34	Net Profit/(Loss) after W.P.F. and other income	(97,760,058)	(98,407,820)	(1,492,962)		34
35	E. (ii) Less: Non operating other income	76,407	76,407	76,407	B-3.10	35
36	Interest income from KESC & WAPDA	302,479	302,479		B-3.11	36
37	Interest income & others from SNGPL	153,752		133,702	B-3.12	37
38	Interest on short term loan to subsidiary	60,991	60,991		B-3.13	38
39	Income for recoverable against asset contribution	37,006	37,006		B-3.14	39
40	Margin for TSA Management	1,339,914		1,339,914	B-3.15	40
41	Motor manufacturing plant profitability	74,150	74,150		B-3.16	41
42	Net Sale of Condensate	(1,429)	(1,429)		B-3.17	42
43	Net Profit/(Loss) after W.P.F. and other income	(97,760,058)	(98,407,820)	(1,492,962)		43
44	Net Profit/(Loss) after W.P.F. and other income	(97,760,058)	(98,407,820)	(1,492,962)		44
45	F. Operating profit/(Loss) (E - D + F)	(91,012,504)	(75,092,045)	(15,950,869)		45
46	Return required on Net Assets					46
47	Net assets at beginning	74,171,345	45,906,795	28,174,540	B-3.18	47
48	Net assets at ending	61,621,154	27,053,611	31,621,491	B-3.19	48
49	Average Net Fixed Assets (a)	67,896,249	36,480,203	29,898,015		49
50	Less: Motor Manufacturing Plant and LPG Air Mfg. Project Assets (b)	87,911,219	56,030,219	29,101,020		50
51	Net assets at beginning	5,501,004	2,557,906	913,598	B-3.20	51
52	Net assets at ending	3,167,785	2,552,042	895,102	B-3.21	52
53	Average Net Fixed Assets (b)	4,334,394	2,554,974	904,350		53
54	Average Net Fixed Assets related to Gas Activity (c)	64,146,595	35,445,229	29,001,570		54
55	Deferred Credit at beginning	7,760,526	7,725,526	454,996	B-3.22	55
56	Deferred Credit at ending	5,421,516	8,725,502	696,614	B-3.23	56
57	Average Deferred Credit (d)	6,591,021	8,225,514	575,805		57
58	Net Profit/(Loss) after W.P.F. and other income	(97,760,058)	(98,407,820)	(1,492,962)		58
59	Return required on Net Assets	16,79%	16,79%	16,79%		59
60	Amount of return required (3.0 * 5.0)	12,735,963	7,051,692	4,774,231		60
61	Additional Revenue Required for Gas Operation					61
62	Shortfall/(Surplus) over return required (2.7 - 3.0)	102,408,587	83,053,696	20,605,391		62
63	Gross-up for W.P.F. @ 5% of 4.1	104,209,155	87,424,343	21,786,412		63
64	Increase in Prescribed Price - Rs per MMBTU	309.35	308.88	311.27		64
65	Subtotal for LFG Air Mfg. Projects over & above Gas Operation	1,375,077	1,375,077	1,375,077	B-3.24	65
66	Total Shortfall/(Surplus) in Revenue Requirement	103,883,662	89,798,020	23,181,489		66
67	Shortfall in Rs per MMBTU for Natural Gas Customers (w.e.f. 1 July 2022)	313.75	313.75	313.75		67
68	Shortfall in Rs per MMBTU for RLNG Customers (w.e.f. 1 July 2022)	47.14	47.14	47.14		68

SUI SOUTHERN GAS COMPANY LIMITED
PROJECTED PROFIT AND LOSS ACCOUNT

S No.	DESCRIPTION	Determining EBR FY 2021-22 (as 13-08-2021)	Review Period FY 2021-22	Related to Natural Gas Customers	Related to LNG Customers	Portion EBR FY 2021-22	Related to Natural Gas Customers	Related to LNG Customers	S No.
1	Sales volume in MCMCF	324,249	393,882	120,540	70,741	355,142	284,515	66,316	1
2	Energy Sale in MMBTU	318,783	388,248	114,911	71,937	455,924	283,043	69,985	2
3									3
4	Gas sales net of sales tax	251,249,906	313,794,999	227,426,139	186,368,561	362,821,493	197,926,313	164,895,120	4
5	Gas development surcharge - at cost	(17,363,378)	(18,155,973)	(18,155,973)	-	-	-	-	5
6	Loss : Price increase / decrease	-	242,989,809	213,172,230	30,817,379	(110,582,452)	88,749,023	21,784,412	6
7	Gas development surcharge after price adjustment	(17,363,378)	(262,155,583)	(231,219,268)	(30,817,379)	(110,582,452)	(88,749,023)	(21,784,412)	7
8	Gas development surcharge - lateral	-	194,773,722	194,773,722	-	-	-	-	8
9	Gross Subsidy for A + Max LPG Operation over & above Gas Operation	547,095	943,917	943,917	-	1,173,077	1,373,077	-	9
10	Gas development surcharge after adjustment	(16,421,484)	(66,438,943)	(33,621,566)	(30,817,379)	(109,209,365)	(87,424,943)	(21,784,412)	10
11	Net sales	247,671,190	480,233,943	263,047,703	217,186,740	472,640,789	285,351,355	186,679,512	11
12	Cost of gas	234,360,146	448,798,111	241,910,991	204,887,120	445,319,383	269,597,660	171,721,736	12
13	Gross Margin	13,311,044	31,435,834	19,136,714	12,299,620	36,711,401	21,753,695	14,957,806	13
14	Transmission and distribution costs	17,078,934	27,619,520	20,459,468	7,160,050	22,584,502	22,944,987	240,515	14
15	Depreciation	7,008,935	8,753,910	7,115,868	1,437,072	9,549,425	8,244,303	1,605,122	15
16		24,087,870	36,373,460	27,575,336	8,597,124	32,133,927	30,588,290	1,545,637	16
17	Mixer rentals	1,671,711	1,592,920	1,671,711	71,319	1,752,921	1,726,364	26,857	17
18	Recognition of income against Colonial Credit	593,697	595,697	595,697	-	620,520	593,698	36,822	18
19	Operating profit / (loss)	(8,809,417)	(2,649,008)	(6,372,214)	3,723,205	6,650,915	(6,321,933)	(3,175,848)	19
20	Late payment surcharge	1,023,657	1,023,657	1,023,657	-	1,061,100	1,061,100	-	20
21	Mixer manufacturing plant profit	59,219	59,219	59,219	-	148,049	148,595	-	21
22	A + Max LPG project profit	139,237	161,009	161,009	-	150,684	160,681	-	22
23	RLNG Transportation Income	-	14,083,609	-	14,083,609	7,510,199	-	7,610,199	23
24	Net Sale of Condensate	(9,235)	(9,235)	(9,235)	-	(2,977)	(2,977)	-	24
25	Other income	2,097,851	3,336,596	2,097,851	1,218,245	3,009,793	1,633,141	1,375,551	25
26		(3,156,689)	15,009,957	(3,337,663)	(9,147,629)	18,638,416	(2,523,283)	21,161,595	26
27	Other charges excluding (W.P.F.)	1,855,000	1,855,000	1,855,000	-	2,886,033	2,886,033	-	27
28	Workers Profit Participation Fund (W.P.F.)	-	841,456	-	541,416	1,018,127	-	1,018,127	28
29		(7,011,689)	13,312,531	(4,892,663)	(8,306,193)	14,734,256	(6,409,316)	21,143,572	29
30	Financial charges	2,921,253	5,179,785	3,921,263	7,318,522	5,305,773	3,205,609	1,799,164	30
31	Profit / (loss) before taxation	(10,952,952)	7,173,745	(8,813,926)	15,987,671	9,728,483	(9,615,925)	19,344,407	31

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B

SUI SOUTHERN GAS COMPANY LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2022-23
INDEX - SECTION - B

Supporting Schedules to Financial Statements

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Overall	(MMCFD)	B-2.3
Unit wise	(MMCFD)	B-2.4
Overall	(MMMBTU)	B-2.5
Unit wise	(MMMBTU)	B-2.6
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Unit wise	(Rupees in million)	B-2.8
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Table # B-1.1

SOUTHERN GAS COMPANY LIMITED
STATEMENT OF FIELD WISE INDIGENOUS
GAS PURCHASES
FOR EPR FY 2022-23

FOR ERR FY 2022-23				Volume in MMCF			
S.No.	GAS FIELD	Petition/ Determination ERR FY 2021-22	Review Petition RERR FY 2021-22	Petition ERR FY 2022-23	Variance Inc. / (Dec)	S.No	
					%		
1	Sui	40,150	39,903	40,150	-	-	1
2	Kandhkot	365	399	-	(365)	(100.0)	2
3	Mazarani	730	775	-	(730)	(100.0)	3
4	Gambat Block - Wafig/Shahdad-(XI)	33,945	33,796	36,500	2,555	7.5	4
5	Adam X-I / Hala	4,015	4,320	4,745	730	18.2	5
6	Ifadaf X-I & Badcof X-I	4,380	3,636	4,015	(365)	(8.3)	6
7	Badin Block	9,417	9,320	7,300	(2,117)	(22.5)	7
8	Khipro Block - Nairat Basil	60,955	61,721	63,875	2,920	4.8	8
9	Mirpurkhas Block - Keuser	22,265	22,768	16,790	(5,475)	(24.6)	9
10	Mitha	1,095	1,078	2,920	1,825	166.7	10
11	Kotri	29	44	-	(29)	(100.0)	11
12	Kadanwari	24,090	20,574	7,300	(16,790)	(69.7)	12
13	Rait	24,820	25,436	18,615	(6,205)	(25.0)	13
14	Miano	3,893	4,137	3,475	(382)	(9.8)	14
15	Sawan	3,954	3,887	4,380	426	10.8	15
16	Maher / Mubarak Block	9,123	8,225	7,300	(1,825)	(20.0)	16
17	Latif	3,650	3,433	3,650	-	-	17
18	Zamzama	365	704	10,950	10,585	2,900.0	18
19	Kirthar (Rehman)-BWT	11,242	11,486	13,899	2,657	23.6	19
20	Rizq - BWT	8,833	8,458	10,658	1,825	20.7	20
21	Zargoan	6,935	6,667	7,300	363	5.3	21
22	Mari	365	357	-	(365)	(100.0)	22
23	Sujawal	365	308	-	(365)	(100.0)	23
24	Sujia	4,180	4,282	3,650	(730)	(17.5)	24
25	Aqeeq-I	365	338	434	69	19.0	25
26	SNGLP Towns-(Ghotki, Rustam, SherAli, Ubaro, etc)	1,431	1,442	1,460	29	2.0	26
27	Sari / Hardi	365	703	363	-	-	27
28	Sirjhora	5,840	6,186	5,475	(365)	(6.3)	28
29	Bohi	730	853	730	-	-	29
30	Paseki Deep & Kunwar Deep	43,431	41,671	32,850	(10,581)	(24.4)	30
31	Tay/Dars	16,064	16,005	18,250	2,186	13.6	31
32	Pakhro / Nonzai Jagir/ Daru	434	507	434	-	-	32
33	Nur Bagla fields	730	743	365	(365)	(50.0)	33
34	Dachraiper / Jakhro / Gopang	365	358	365	-	-	34
35	Chutto-01	2,738	3,120	1,431	(1,307)	(47.7)	35
36	Batasm	1,938	1,917	1,124	(814)	(42.0)	36
37	Thal	-	158	-	-	-	37
38	Saleman	9,125	7,575	7,665	(1,460)	(16.0)	38
39	Mangrio	2,920	2,424	2,029	(891)	(30.5)	39
40	Ayesha / Aminah / Ayesha (North)	3,650	4,347	7,300	3,650	100.0	40
41	Zainab	1,095	909	730	(365)	(33.3)	41
42	Ditro	1,095	944	-	(1,095)	(100.0)	42
43	Saand	-	626	-	-	-	43
44	Saqib	-	380	-	-	-	44
45	Behari	-	513	-	-	-	45
46		371,680	367,031	350,480	(21,199)	(5.7)	46

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF FIELD WISE INDIGENOUS
GAS PURCHASES
FOR ERR FY 2022-23

FOR ERR FY 2022-23				Volume in MMCFD		
S.No.	GAS FIELD	Petition/ Determination ERR FY 2021-22	Review Petition RETURN FY 2021-22	Petition ERR FY 2022-23	Variance Inc. / (Dec.)	S.No.
					%	
1	Sui	110.0	109.3	110.0	-	1
2	Kandhkot	1.0	1.1	-	(1.0)	2
3	Mazarani	2.0	2.1	-	(2.0)	3
4	Gembat Block - Wa'iq/Shahdad(XI)	93.0	92.6	100.0	7.0	4
5	Adam X-1 / Fala	13.0	11.8	13.0	2.0	5
6	Hadeef X-1 & Badoel X-1	12.0	10.0	11.0	(1.0)	6
7	Budin Block	25.8	25.5	20.0	(5.8)	7
8	Khizar Block - Naimat Basal	167.0	169.1	175.0	8.0	8
9	Mirpurkhas Block - Kauser	61.0	62.4	46.0	(15.0)	9
10	Mitha	3.0	3.0	8.0	5.0	10
11	Kotri	0.1	0.1	-	(0.1)	11
12	Kadanwari	66.0	56.4	20.0	(46.0)	12
13	Bhit	68.0	69.7	51.0	(17.0)	13
14	Miano	10.7	11.3	15.0	4.3	14
15	Sawan	10.8	10.6	12.0	1.2	15
16	Maher / Mubarak Block	25.0	22.5	20.0	(5.0)	16
17	Ladif	10.0	9.4	10.0	-	17
18	Zamzama	1.0	1.9	32.0	29.0	18
19	Karther (Rehman)-EWT	30.8	31.5	38.1	7.3	19
20	Rizq - EWT	24.2	23.2	29.2	5.0	20
21	Zurgoor	19.0	18.3	20.0	1.0	21
22	Mari	1.0	1.0	-	(1.0)	22
23	Sujawal	1.0	0.8	-	(1.0)	23
24	Sujjal	12.0	11.7	10.0	(2.0)	24
25	Aqceeq-I	1.0	0.9	1.2	0.2	25
26	SNGLP: Towan-(Chhotk, Rustam, Sher Ali, Uham, etc)	3.9	3.9	4.0	0.1	26
27	Sari / Harat	1.0	0.8	1.0	-	27
28	Singhron	16.0	16.9	15.0	(1.0)	28
29	Bobi	2.0	2.3	2.0	-	29
30	Pasuki Deep & Kunnar Deep	119.0	114.2	90.0	(29.0)	30
31	Tay/Dara	44.0	43.9	50.0	6.0	31
32	Pakhro / Noora Jagir/ Dara	1.2	1.4	1.2	-	32
33	Nur Bagha fields	2.0	2.0	1.6	(1.0)	33
34	Dachrapur / Jaichro / Gopung	1.0	1.0	1.0	-	34
35	Chutto-01	7.5	8.5	3.9	(3.6)	35
36	Bitrisot	5.3	5.3	3.1	(2.2)	36
37	Thal	-	0.4	-	-	37
38	Suleman	25.0	20.8	21.0	(4.0)	38
39	Mangrio	8.0	6.6	5.6	(2.4)	39
40	Ayesha / Aminah / Ayesha (North)	10.0	11.9	20.0	10.0	40
41	Zainab	9.0	2.5	2.0	(1.0)	41
42	Bitro	3.0	2.6	-	(3.0)	42
43	Saad	-	1.7	-	-	43
44	Saqib	-	1.0	-	-	44
45	Benari	-	1.4	-	-	45
46		1,018.3	1,005.6	960.2	(58.1)	(5.7)

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Table # B-1.3

II SOUTHERN GAS COMPANY LIMITED
STATEMENT OF FIELD WISE INDIGENOUS
GAS PURCHASES
FOR ERR FY 2022-23

Volume in MMMBTU

S No	GAS FIELD	Petition/ Determination ERR FY 2021-22	Review Petition ERR FY 2021-22	Petition ERR FY 2022-23	Variance Inc / (Dec)		S No
						%	
1	Sui	38,424	38,182	38,424	-	-	1
2	Kandhkot	365	382	-	(365)	(100.0)	2
3	Muzarani	741	788	-	(741)	(100.0)	3
4	Ganbhat Block - Wafiq/Shahdad-(XI)	32,757	32,157	35,223	2,466	7.5	4
5	Adam X-I / Hale	4,244	4,549	5,015	772	18.2	5
6	Madaf X-I & Badoel X-I	4,385	3,636	4,015	(365)	(8.3)	6
7	Badin Block	10,359	10,232	8,530	(2,329)	(22.5)	7
8	Khipro Block - Naimat Basal	58,090	57,901	60,873	2,783	4.8	8
9	Mirpurkhas Block - Kausar	23,178	24,280	17,478	(5,699)	(24.6)	9
10	Mitha	1,096	1,080	2,923	1,827	166.7	10
11	Koon	28	42	-	(28)	(100.0)	11
12	Kadawari	24,114	20,600	7,307	(16,807)	(69.7)	12
13	Bhit	23,926	24,536	17,945	(5,982)	(25.0)	13
14	Miano	3,897	4,149	5,480	1,583	40.6	14
15	Satwan	4,009	3,950	4,441	432	10.8	15
16	Meher / Muzarak Block	9,882	8,921	7,906	(1,976)	(20.0)	16
17	Latif	3,701	3,487	3,701	-	-	17
18	Zauzama	291	561	8,738	8,447	2,900.0	18
19	Kirthar (Rehman)- EWT	9,758	9,887	12,065	2,306	23.6	19
20	Rizqi - EWT	7,667	7,443	9,251	1,584	20.7	20
21	Zargona	6,574	6,320	6,920	346	5.3	21
22	Mari	365	342	-	(365)	(100.0)	22
23	Sujawal	385	374	-	(385)	(100.0)	23
24	Sujjal	4,617	4,501	3,847	(169)	(16.7)	24
25	Aqeeq-I	402	370	478	76	19.0	25
26	SNGL Towns-(Ghotki, Rustam, Sher Ali, Ubaio, etc)	1,431	1,409	1,460	29	2.0	26
27	Sari / Mund	329	273	329	-	-	27
28	Sinjhero	5,974	6,341	5,601	(373)	(6.2)	28
29	Bobi	822	965	822	-	-	29
30	Pasaki Deep & Kanner Deep	44,474	42,658	31,638	(10,835)	(24.4)	30
31	Tay/Dars	16,449	16,358	18,688	2,239	13.6	31
32	Pakhro / Nooral Jagir / Dars	516	601	516	-	-	32
33	Nur Bagla Fields	784	800	392	(392)	(50.0)	33
34	Dachrepur / Jakino / Gopang	434	417	434	-	-	34
35	Chutto-GI	3,255	3,701	1,701	(1,554)	(47.7)	35
36	Birigah	2,364	2,232	1,337	(968)	(42.0)	36
37	Thal	-	159	-	-	-	37
38	Suleman	9,125	7,575	7,665	(1,460)	(16.0)	38
39	Mangrio	2,920	2,424	2,029	(891)	(30.5)	39
40	Ayesha / Aminah / Ayesha (North)	3,464	4,202	6,928	3,464	100.0	40
41	Zausa	1,095	909	730	(365)	(33.3)	41
42	Biro	1,110	958	-	(1,110)	(100.0)	42
43	Sau-d	-	555	-	-	-	43
44	Saqih	-	284	-	-	-	44
45	Benari	-	531	-	-	-	45
46		367,737	362,071	342,331	(25,406)	(6.9)	46

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS PURCHASES

S.No	CATEGORY	Determination ERR FY 2021-22 Dt:-17-08-2022	Review ERR FY 2021-22	Petition ERR FY 2022-23	Variance (Inc./Dec.) over DERR	S.No
	NG				%	
1	Volume in MMCf					1
2	Gross Purchases	377,680	367,031	350,480	(21,199) (5.7)	2
3	Less: Gas Consumed Internally - metered	837	1,149	1,037	150 16.9	3
4		370,793	365,882	349,443	(21,349) (5.8)	4
5						5
6	Energy in MMBTU					6
7	Gross Purchases	367,737	362,071	342,331	(25,406) (6.9)	7
8	Less: Gas Consumed Internally - metered	835	1,108	1,147	292 34.1	8
9		366,881	360,963	341,184	(25,698) (7.0)	9
10						10
11	Amount in Rupees Million					11
12	Gross Purchases	234,906,565	244,659,744	264,183,886	29,577,322 12.6	12
13	Less: Gas Consumed Internally - metered	546,419	748,753	886,226	339,807 62.2	13
14	Net Cost of Gas Purchases (NG)	234,360,146	243,910,991	263,597,660	29,237,515 12.5	14
15						15
16	Average Rate Rs per MMBTU	638.79	675.72	772.60	133.81 20.9	16
17						17
18	RLNG					18
19	Volume in MMCf	85,860	83,472	75,580	(2,388.33) (2.8)	19
20	Less: GIC		1,597	-	1,596.79	20
21		85,860	81,875	75,580	(3,985.11) (4.6)	21
22	Energy in MMBTU	90,582	87,150	79,359	(3,432.35) (3.8)	22
23	Less: GIC		1,623	-	1,623.00	23
24		90,582	85,527	79,359	(5,055.36) (5.6)	24
25	Cost of Gas Purchases	114,502,433	208,775,172	171,721,726	94,272.74 82.3	25
26	Less: GIC		3,888,052	-	3,888.05	26
27	Net Cost of Gas Purchases (RLNG)	114,502,433	204,887,120	171,721,726	90,384.69 78.9	27
28	Average Rate Rs per MMBTU	1,264.07	2,395.59	2,163.87	1,131.52 89.5	28

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS CONSUMED INTERNALLY
AND THIRD PARTY DAMAGES

S.No	CATEGORY	Determination FRR FY 2021-22 dt.-17.08-2021	Review ERR FY 2021-22	Petition FRR FY 2022-23	Variance Inc/(Dec.) over DERR	S.No
					%	
1	Volume MMCF					1
2	Compressor Fuel	730	992	870	140	19
3	LHF Badin	0	0	32	32	3
4	Domestic / other use	187	187	272	85	45
5	Transmission - total	917	1,179	1,174	256	28
6	Distribution - total	372	372	279	(93)	(25)
7	Total	1,290	1,552	1,453	163	13
8	Gas Consumed Internally - metered	887	1,149	1,037	150	17
9	Gas Consumed Internally - un-metered	38	38	144	106	275
10		925	1,187	1,181	255	28
11	Third Party Damages - un-metered	364	364	267	(97)	(27)
12	Gross Gas Consumed Internally	1,290	1,552	1,448	158	12
13	Less: Non-Admissible (un-metered)	403	403	411	8	2
14	Net Gas Consumed Internally (metered)	887	1,149	1,037	150	17
15	Energy in MMBTU				-	
16	Compressor Fuel	704	956	841	157	19
17	LHF Badin	0	0	176	176	
18	Domestic / other use	182	182	264	82	45
19	Transmission - total	886	1,138	1,280	394	45
20	Distribution - total	370	370	274	(96)	(26)
21	Total	1,255	1,508	1,554	298	24
22	Gas Consumed Internally - metered	855	1,108	1,147	292	34
23	Gas Consumed Internally - un-metered	38	38	140	102	269
24		893	1,146	1,287	394	44
25	Third Party Damages - un-metered	362	362	262	(100)	(28)
26	Gross Gas Consumed Internally	1,255	1,508	1,549	294	23
27	Less: Non-Admissible (un-metered)	400	400	402	2	5
28	Net Gas Consumed Internally (metered)	855	1,108	1,147	292	34
29					-	
30	Average Rate - Rs per MMBTU	638.79	675.72	772.60	133.81	20.95
31	Cost of Gas Consumed Internally - Rs Million				-	
32	Compressor Fuel	449.441	646.059	649.522	200.081	44.518
33	LHF Badin	0.123	2.132	135.764	135.641	
34	Domestic / other use	116.175	127.896	263.626	87.427	75.252
35	Transmission - total	565.743	769.085	988.892	423.149	74.795
36	Distribution - total	236.297	249.747	211.481	(24.616)	(10.426)
37	Total	801.840	1,028.833	1,200.373	398.533	49.702
38	Gas Consumed Internally - metered	546.410	748.753	886.226	339.807	62.188
39	Gas Consumed Internally - un-metered	24.226	25.627	108.116	83.890	346.280
40		570.643	774.380	994.342	423.697	74.249
41	Third Party Damages - un-metered	231.092	244.453	262.571	(28.521)	(12.342)
42	Gross Gas Consumed Internally	801.737	1,018.833	1,196.913	395.176	49.290
43	Less: Non-Admissible (un-metered)	255.318	270.080	310.687	55.369	21.686
44	Net Gas Consumed Internally (metered)	546.419	748.753	886.226	339.807	62.188
45						
46	RLNG - Gas Consumed Internally					
47	MMCFD		4.57	4.45	4.45	87.44
48	MMCF		1,597	1,623	1,623	87
49	MMMBTU		1,623	2,022	2,022	107
50	Average Rate - Rs per MMBTU		2,395.59	-	-	-
51	Cost of Gas Consumed Internally - Rs Million		3,888,052	-	-	-

SUE SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES

S No	CATEGORY	Determination ERR FY 2020-21	Determination ERR FY 2021-22	Periodic ERR FY 2022-23	Variance in Sales Figures Periodic over Determination FY 2021-22		S No
						%	
	<u>INDIGENOUS GAS SALES</u>						
1	POWER	48,570	18,287	17,887	(600)	(2.2)	1
2	NOORABAD POWER PLANT	6,708	6,101	3,475	(626)	(10.3)	2
3	HABIBULLAH COASTAL POWER	6,483	3,650	5,475	1,825	50.6	3
4	CEMENT	242	133	125	(9)	(6.5)	4
5	FERTILIZER - FERTISTOCK	18,025	19,045	18,476	(567)	(3.0)	5
6	CNG STATIONS	25,105	1,437	1,057	(380)	(26.5)	6
7	CAPTIVE POWER	46,225	25,842	21,681	(4,161)	(16.1)	7
8	CAPTIVE POWER (TEXTILE)	41,291	48,991	49,275	284	0.6	8
9	ZINC-RATED INDUSTRIES	19,489	47,444	31,285	(16,158)	(34.1)	9
10	GENERAL INDUSTRIES	54,250	33,384	26,755	(6,629)	(19.5)	10
11	COMMERCIAL	10,500	9,886	9,125	(761)	(5.8)	11
12	DOMESTIC	105,566	111,284	102,200	(9,084)	(5.2)	12
	Decrease in Sales Value and Units due to Customers in Liquidation						13
14	TOTAL	373,249	325,289	288,816	(36,473)	(11.2)	14
	<u>RLG GAS SALES</u>						15
16	POWER	21,503	11,895	10,004	(3,109)	(5.9)	16
17	HABIBULLAH COASTAL POWER	-	3,650	2,920	(730)	(20.0)	17
18	CNG STATIONS	-	13,908	7,300	(6,608)	(47.5)	18
19	CAPTIVE POWER	2,656	7,500	3,650	(3,850)	(50.0)	19
20	GENERAL INDUSTRIES	529	2,088	3,094	916	43.9	20
21	COMMERCIAL	898	1,159	1,138	(21)	(2.7)	21
22	DOMESTIC	-	45	-	(45)	(100.0)	22
23	TOTAL	26,363	35,685	26,336	(6,713)	(19.2)	23
24	GRAND TOTAL	399,611	360,974	315,152	(43,823)	(11.8)	24

Table B.2.2

SLI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES

VOLUME IN MMCF							
S No	CATEGORY	Determination ERR FY 2020-21	Determination ERR FY 2021-22	Determination ERR FY 2022-23	Variance Inc./Dec. Review Position err Determination FY 2021-22	S No	
					%		
1	(A) KARACHI					1	
2	TOTAL INDUSTRIAL	227,476	228,918	189,250	(39,667)	(17.3)	2
3	POWER - KE (NG)	42,345	18,287	17,887	(401)	(2.2)	3
4	POWER - RONG	21,508	44,835	48,084	3,109	6.9	4
5	CEMENT	234	121	92	(29)	(24.1)	5
6	FERTILIZER - Feedstock	18,025	19,043	18,176	(867)	(4.6)	6
7	FERTILIZER - Power	573	404	192	(212)	(52.5)	7
8	PAK STEEL	749	782	746	(35)	(4.5)	8
9	CNG STATIONS	14,107	520	326	(194)	(37.3)	9
10	CNG STATIONS (RLNG)	-	8,978	4,294	(3,785)	(42.3)	10
11	CAPTIVE POWER	11,085	17,395	11,979	(5,116)	(29.5)	11
12	CAPTIVE POWER (RLNG)	2,636	7,067	3,974	(3,093)	(43.7)	12
13	CAPTIVE POWER (TEXTILE) RING	-	-	1,247	1,247	100.0	13
14	CAPTIVE POWER (TEXTILE)	28,761	16,812	36,346	17,534	103.3	14
15	ZERO-RATED INDUSTRIES	19,208	46,728	36,887	(10,841)	(23.2)	15
16	GENERAL INDUSTRIES (RLNG)	479	889	1,129	540	60.7	16
17	GENERAL INDUSTRIES	37,375	28,196	15,458	(12,737)	(45.2)	17
18	COMMERCIAL	7,682	6,881	6,456	(426)	(6.2)	18
19	COMMERCIAL (RLNG)	918	903	1,164	261	28.9	19
20	COMMERCIAL (SPRT)	-	196	218	23	11.7	20
21	DOMESTIC (RLNG)	-	21	-	(21)	(100.0)	21
22	DOMESTIC	61,965	65,729	60,073	(5,656)	(8.6)	22
23	SUB TOTAL 'A'	287,940	302,647	257,161	(45,486)	(15.0)	23
24	(B) SINDH EXCLUDING KARACHI						24
25	TOTAL INDUSTRIAL	36,984	38,950	36,715	(2,235)	(5.7)	25
26	POWER - WAPDA	7,023	-	-	-	100.0	26
27	NOORABAD POWER PLANT	6,708	6,131	5,475	(656)	(10.3)	27
28	CEMENT	7	12	8	1	13.3	28
29	CNG STATIONS	9,868	357	462	105	29.5	29
30	CNG STATIONS (RLNG)	-	5,830	3,006	(2,823)	(48.4)	30
31	CAPTIVE POWER	15,105	8,727	9,607	880	10.1	31
32	CAPTIVE POWER (RLNG)	-	233	9	(214)	(91.8)	32
33	CAPTIVE POWER (TEXTILE) RING	-	-	413	413	100.0	33
34	CAPTIVE POWER (TEXTILE)	12,531	12,178	12,849	671	5.5	34
35	ZERO-RATED INDUSTRIES	278	716	432	(284)	(39.6)	35
36	GENERAL INDUSTRIES (RLNG)	451	1,189	1,577	376	31.4	36
37	GENERAL INDUSTRIES	5,610	3,597	2,870	(727)	(20.2)	37
38	COMMERCIAL	1,671	1,451	1,292	(159)	(11.0)	38
39	COMMERCIAL (RLNG)	811	257	294	38	14.7	39
40	COMMERCIAL (SPRT)	-	29	36	7	22.7	40
41	DOMESTIC (RLNG)	-	29	-	(29)	(100.0)	41
42	DOMESTIC	26,839	28,998	26,453	(2,545)	(8.8)	42
43	SUB TOTAL 'B'	85,375	69,513	64,790	(4,923)	(7.1)	43
44	(C) BALUCHISTAN						44
45	TOTAL INDUSTRIAL	9,189	8,287	16,404	8,117	97.9	45
46	POWER - WAPDA	-	-	-	-	100.0	46
47	HABIBULLAH COASTAL POWER (NG)	6,481	3,650	3,475	(175)	(4.8)	47
48	HABIBULLAH COASTAL POWER (RLNG)	-	3,650	2,920	(730)	(20.0)	48
49	CEMENT	-	-	24	24	100.0	49
50	CNG STATIONS	1,129	360	268	(292)	(25.9)	50
51	CNG STATIONS (RLNG)	-	-	-	-	100.0	51
52	CAPTIVE POWER	35	20	93	73	378.0	52
53	CAPTIVE POWER (TEXTILE)	-	-	80	80	100.0	53
54	ZERO-RATED INDUSTRIES	-	-	46	46	100.0	54
55	GENERAL INDUSTRIES (RLNG)	-	-	-	-	100.0	55
56	GENERAL INDUSTRIES	544	408	7,496	7,088	1,737.5	56
57	COMMERCIAL	1,147	711	690	(21)	(2.9)	57
58	COMMERCIAL (RLNG)	-	-	-	-	100.0	58
59	COMMERCIAL (SPRT)	-	418	433	15	3.5	59
60	DOMESTIC	16,761	16,561	15,673	(888)	(5.4)	60
61	SUB TOTAL 'C'	26,097	25,978	33,201	7,223	27.8	61
62	GRAND TOTAL SALES (A+B+C+D)	399,611	398,138	355,152	(43,486)	(10.8)	62
63	TOTAL RONG SALES	26,363	73,049	46,536	(24,830)	(34.0)	63
64	TOTAL NG SALES	373,249	325,289	288,616	(18,356)	(5.6)	64

SHS SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES

VOLUME IN MMCFD

S No	CATEGORY	Determination ERR FY 2020-21	Determination ERR FY 2021-22	Perition ERR FY 2021-22	Variance Inc. (Pct.) Review Period err Determination FY 2021-22	S No	
	<u>INDIGENOUS GAS SALES</u>				%		
1	POWER	155.3	50.1	49.0	(1.1)	(3.2)	1
2	NOORABAD POWER PLANT	18.4	16.7	15.0	(1.7)	(10.3)	2
3	HADIDULLAH COASTAL POWER	17.8	10.0	5.0	5.0	50.0	3
4	CEMENT	0.7	0.4	0.3	(0.0)	(6.5)	4
5	FERTILIZER - FEROSKOT	49.4	52.2	53.6	(1.4)	(3.0)	5
6	CNG STATIONS	58.8	3.9	2.9	(1.0)	(26.5)	6
7	CAPTIVE POWER	126.5	78.8	59.4	(1.4)	(16.1)	7
8	CAPTIVE POWER (TEXTILE)	113.1	134.2	125.0	9.8	9.6	8
9	ZERO-RATION INDUSTRIES	53.4	130.0	85.7	(44.3)	(34.1)	9
10	GENERAL INDUSTRIES	121.2	91.5	73.3	(18.2)	(19.9)	10
11	COMMERCIAL	28.8	26.5	25.0	(1.5)	(5.8)	11
12	DOMESTIC	289.2	314.9	280.0	(24.9)	(5.2)	12
13	Decrease in Sales Value and units due to Customers in Litigation						13
14	TOTAL	1,022.6	891.2	791.5	(99.9)	(11.2)	14
15	<u>RLNG GAS SALES</u>						15
16	POWER	60.0	123.0	131.5	8.5	6.9	16
17	HABIBULLAH COASTAL POWER	-	10.0	8.0	(2.0)	(20.0)	17
18	CNG STATIONS	-	28.1	20.0	(8.1)	(47.5)	18
19	CAPTIVE POWER	7.2	20.8	10.0	(10.0)	(50.0)	19
20	GENERAL INDUSTRIES	2.5	5.7	8.2	2.5	43.9	20
21	COMMERCIAL	2.3	5.2	4.0	0.8	25.7	21
22	DOMESTIC	-	0.1	-	(0.1)	(100.0)	22
23	TOTAL	72.3	293.1	181.7	(18.4)	(9.2)	23
24	GRAND TOTAL	1,094.8	1,184.3	973.0	(118.3)	(10.8)	24

Table # B-2.4

SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES

VOLUME IN MMCFD							
S.No	CATEGORY	Determination ERR FY 2020-21	Determination ERR FY 2021-22	Positive ERR FY 2022-23	Variance Inc /Dec Review Period FY 2021-22 Commission	S.No	
					%		
1	(A) KARACHI					1	
2	TOTAL INDUSTRIAL	595.8	627.2	518.5	(110)	(17.3)	2
3	POWER - RE (NG)	116.0	52.1	49.0	(1)	(2.2)	3
4	POWER - RLNG	50.0	123.0	131.5	5	6.9	4
5	CEMENT	0.6	0.3	0.3	(0)	(24.1)	5
6	FERTILIZER - Feedstock	49.4	52.2	50.6	(2)	(3.0)	6
7	FERTILIZER - Power	1.6	1.1	0.5	(1)	(32.5)	7
8	PAK STEEL	2.1	2.1	2.0	(0)	(4.5)	8
9	CNG STATIONS	38.7	1.4	0.9	(1)	(37.3)	9
10	CNG STATIONS (RLNG)	-	22.1	11.8	(10)	(46.8)	10
11	CAPTIVE POWER	85.2	46.8	52.8	(14)	(29.9)	11
12	CAPTIVE POWER (RLNG)	7.2	19.4	5.4	(14)	(72.1)	12
13	CAPTIVE POWER (TEXTILE) RLNG	-	-	3.4	3	(100.0)	13
14	CAPTIVE POWER (TEXTILE)	78.8	100.9	99.6	(1)	(1.3)	14
15	ZERO-RATED INDUSTRIES	52.5	128.0	84.4	(44)	(84.1)	15
16	GENERAL INDUSTRIES (RLNG)	1.3	2.4	3.9	1	60.7	16
17	GENERAL INDUSTRIES	102.4	77.2	42.3	(35)	(45.2)	17
18							18
19	COMMERCIAL	21.0	18.9	17.7	(1)	(6.2)	19
20	COMMERCIAL (RLNG)	2.2	2.3	3.2	3	28.9	20
21	COMMERCIAL (SPRT)	-	0.5	0.6	0	11.7	21
22	DOMESTIC (RLNG)	-	0.1	-	(0)	(100.0)	22
23	DOMESTIC	109.8	180.1	164.6	(15)	(8.6)	23
24	SUB TOTAL 'A'	788.9	829.2	704.6	(124.6)	(15.0)	24
25							25
26	(B) SINDH EXCLUDING KARACHI						26
27	TOTAL INDUSTRIAL	156.1	106.7	100.6	(6)	(5.7)	27
28	POWER - WAPDA	19.2	-	-	-	(100.0)	28
29	NOURIABAD POWER PLANT	18.4	16.7	15.0	(2)	(10.3)	29
30	CEMENT	0.0	0.0	0.0	(0)	(21.5)	30
31	CNG STATIONS	27.0	1.0	1.3	0	29.5	31
32	CNG STATIONS (RLNG)	-	10.0	8.2	(8)	(48.4)	32
33	CAPTIVE POWER	41.4	25.9	26.3	2	(10.1)	33
34	CAPTIVE POWER (RLNG)	-	0.6	0.1	(1)	(91.8)	34
35	CAPTIVE POWER (TEXTILE) RLNG	-	-	1.1	1	(100.0)	35
36	CAPTIVE POWER (TEXTILE)	34.3	39.4	35.2	2	5.5	36
37	ZERO-RATED INDUSTRIES	0.8	2.0	1.2	(1)	(39.6)	37
38	GENERAL INDUSTRIES (RLNG)	1.2	3.3	4.3	1	31.4	38
39	GENERAL INDUSTRIES	13.7	9.9	7.0	(2)	(20.2)	39
40							40
41	COMMERCIAL	4.6	4.0	3.5	(0)	(11.0)	41
42	COMMERCIAL (RLNG)	0.2	0.7	0.8	0	14.7	42
43	COMMERCIAL (SPRT)	-	0.1	0.1	0	22.7	43
44	DOMESTIC (RLNG)	-	0.1	-	(0)	(100.0)	44
45	DOMESTIC	73.5	79.4	72.8	(7)	(8.8)	45
46	SUB TOTAL 'B'	234.5	191.0	177.8	(113.5)	(17.1)	46
47							47
48	(C) BALUCHISTAN						48
49	TOTAL INDUSTRIAL	22.4	22.7	44.9	22	97.9	49
50	POWER - WAPDA	-	-	-	-	(100.0)	50
51	PARBURLAH COASTAL POWER (NG)	17.8	10.0	15.0	5	50.0	51
52	HABIBULLAH COASTAL POWER (RLNG)	-	10.0	8.0	(2)	(20.0)	52
53	CEMENT	-	-	0.1	0	(100.0)	53
54	CNG STATIONS	2.1	1.5	0.7	(1)	(32.1)	54
55	CNG STATIONS (RLNG)	-	-	-	-	(100.0)	55
56	CAPTIVE POWER	0.1	0.2	0.2	0	378.0	56
57	CAPTIVE POWER (TEXTILE)	-	-	0.2	0	(100.0)	57
58	ZERO RATED INDUSTRIES	-	-	0.1	0	(100.0)	58
59	GENERAL INDUSTRIES (RLNG)	-	-	-	-	(100.0)	59
60	GENERAL INDUSTRIES	1.3	2.1	20.5	19	1,737.5	60
61							61
62	COMMERCIAL	3.1	1.0	1.9	(0)	(43.9)	62
63	COMMERCIAL (RLNG)	-	-	-	-	(100.0)	63
64	COMMERCIAL (SPRT)	-	1.1	1.2	0	3.8	64
65	DOMESTIC	48.9	45.4	42.9	(2)	(4.4)	65
66	SUB TOTAL 'C'	71.5	71.2	91.0	19.8	(27.8)	66
67	GRAND TOTAL SALES (A+B+C+D)	1,094.8	1,091.3	973.0	(118.3)	(10.8)	67
68	TOTAL RLNG SALES	123.5	315.7	181.7	(68.0)	(21.5)	68
69	TOTAL NG SALES	971.3	775.6	791.3	(50.3)	(6.3)	69

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES

ENERGY IN MMMBTU					Variance Int./Det. Review Petition over Determination FY 2021-22		S.No.
S.No.	CATEGORY	Determination ERR FY 2020-21	Determination ERR FY 2021-22	Petition FRR FY 2022-23		%	
	<u>INDIGENOUS GAS SALES</u>						
1	POWER	47,593	57,921	17,536	(300)	(2.2)	1
2	NOORJALAD POWER PLANT	6,466	5,979	5,366	(485)	(50.3)	2
3	HABIBULLAH COASTAL POWER	6,248	3,537	5,366	1,789	50.0	3
4	CEMENT	233	131	122	(8)	(5.3)	4
5	FERTILIZER - FEEDSTOCK	17,377	18,662	18,197	(566)	(3.0)	5
6	CNG STATIONS	24,201	1,408	1,056	(353)	(26.3)	6
7	CAPTIVE POWER	44,561	25,325	21,247	(4,078)	(16.1)	7
8	CAPTIVE POWER (TEXTILE)	39,805	48,011	48,990	279	0.6	8
9	ZERO-RATED INDUSTRIES	18,785	45,495	30,660	(15,835)	(34.3)	9
10	GENERAL INDUSTRIES	42,637	52,718	26,219	(6,499)	(19.9)	10
11	COMMERCIAL	10,122	9,493	8,943	(550)	(5.8)	11
12	DOMESTIC	161,765	109,063	100,156	(8,907)	(8.2)	12
13	Decrease in Sales Value and GDS due to Gas Tariffs in Pakistan						13
14	TOTAL	359,812	218,782	233,040	(35,743)	(11.3)	14
15	<u>RLNG GAS SALES</u>						15
16	POWER	23,704	47,364	50,643	3,280	6.9	16
17	HABIBULLAH COASTAL POWER	-	3,537	3,081	(456)	(12.9)	17
18	CNG STATIONS	-	14,675	7,702	(6,973)	(47.5)	18
19	CAPTIVE POWER	2,693	7,702	3,851	(3,851)	(50.0)	19
20	GENERAL INDUSTRIES	941	2,203	3,169	966	43.9	20
21	COMMERCIAL	908	1,225	1,538	313	25.7	21
22	DOMESTIC	-	52	-	(52)	(100.0)	22
23	TOTAL	27,246	76,793	69,983	(6,809)	(8.9)	23
24	GRAND TOTAL	387,058	295,575	303,023	(42,555)	(12.9)	24

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Table B-26

SIH SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES

ENERGY IN MMMBTU							
S.No.	CATEGORY	Determination PRR FY 2020-21	Determination PRR FY 2021-22	Period UPR FY 2022-23	Variance (a) (b) (c) Review Period curr Determination FY 2021-22	S.No.	
1	(A) KARACHI					1	
2	TOTAL INDUSTRIAL	211,417	228,909	189,736	(39,173)	(17.1)	2
3	POWER - KE (NG)	40,820	17,921	17,530	(3,022)	(12.2)	3
4	POWER - RING	22,764	47,364	50,645	3,280	6.9	4
5	CEMENT	226	118	98	(29)	(24.1)	5
6	FERTILIZER - Feedstock	17,577	18,662	18,107	(556)	(3.0)	6
7	FERTILIZER - Power	553	566	188	(208)	(52.5)	7
8	PAPER MILL	722	766	731	(35)	(4.5)	8
9	CNG STATIONS	15,599	510	220	(190)	(37.3)	9
10	CNG STATIONS (RING)	-	8,522	4,530	(3,992)	(46.8)	10
11	CAPTIVE POWER	29,965	35,753	11,739	(5,814)	(29.9)	11
12	CAPTIVE POWER (RING)	2,693	7,456	2,082	(5,373)	(72.1)	12
13	CAPTIVE POWER (TEXTILE) RING	-	-	1,316	(34,760)	(96.4)	13
14	CAPTIVE POWER (TEXTILE)	27,725	36,076	35,619	(16,174)	(22.2)	14
15	ZERO-RATED INDUSTRIES	18,517	45,793	50,191	29,253	3,118.1	15
16	GENERAL INDUSTRIES (RING)	488	938	1,507	-	-	16
17	GENERAL INDUSTRIES	56,029	27,632	25,141	(32,490)	(45.2)	17
18	COMMERCIAL	7,405	6,744	6,327	(417)	(6.2)	18
19	COMMERCIAL (RING)	829	952	1,128	275	28.9	19
20	COMMERCIAL (SPRT)	-	192	214	22	11.7	20
21	DOMESTIC (RING)	-	22	-	(22)	(100.0)	21
22	DOMESTIC	99,734	64,415	58,872	(5,543)	(8.6)	22
23	SUB TOTAL 'A'	279,386	301,233	256,577	(44,857)	(14.9)	23
24	(B) SINDH EXCLUDING KARACHI						24
25	TOTAL INDUSTRIAL	54,951	38,715	36,350	(2,359)	(6.1)	25
26	POWER - WAPDA	6,772	-	-	-	100.0	26
27	NOORABAD POWER PLANT	6,466	3,979	5,166	(613)	(10.3)	27
28	CEMENT	7	12	8	(4)	(31.5)	28
29	CNG STATIONS	9,513	359	453	105	29.5	29
30	CNG STATIONS (RING)	-	6,150	5,172	(2,978)	(48.4)	30
31	CAPTIVE POWER	14,552	8,553	9,415	862	10.1	31
32	CAPTIVE POWER (RING)	-	246	20	(226)	(91.8)	32
33	CAPTIVE POWER (TEXTILE) RING	-	-	432	(13,502)	(96.4)	33
34	CAPTIVE POWER (TEXTILE)	12,080	11,935	12,592	-	-	34
35	ZERO-RATED INDUSTRIES	268	702	474	(278)	(49.6)	35
36	GENERAL INDUSTRIES (RING)	473	1,269	1,662	397	31.4	36
37	GENERAL INDUSTRIES	4,850	5,325	2,813	(712)	(20.2)	37
38	COMMERCIAL	1,611	1,422	1,266	(456)	(11.0)	38
39	COMMERCIAL (RING)	79	271	311	40	14.7	39
40	COMMERCIAL (SPRT)	-	29	35	7	22.7	40
41	DOMESTIC (RING)	-	30	-	(30)	(100.0)	41
42	DOMESTIC	25,873	28,418	25,924	(2,494)	(8.8)	42
43	SUB TOTAL 'B'	82,515	60,885	63,892	(6,993)	(7.2)	43
44	(C) BALUCHISTAN						44
45	TOTAL INDUSTRIAL	7,894	8,122	16,295	8,174	100.6	45
46	POWER - WAPDA	-	-	-	-	100.0	46
47	PARBUKHAH COASTAL POWER (NG)	6,248	3,577	5,366	1,789	50.0	47
48	PARBUKHAH COASTAL POWER (RING)	-	3,577	2,081	(496)	(13.9)	48
49	CEMENT	-	-	24	-	-	49
50	CNG STATIONS	1,389	548	263	(286)	(32.1)	50
51	CNG STATIONS (RING)	-	-	-	-	100.0	51
52	CAPTIVE POWER	34	20	93	74	100.0	52
53	CAPTIVE POWER (TEXTILE)	-	-	78	78	100.0	53
54	ZERO-RATED INDUSTRIES	-	-	45	-	-	54
55	GENERAL INDUSTRIES (RING)	-	-	-	-	-	55
56	GENERAL INDUSTRIES	524	480	7,746	6,946	1,737.5	56
57	COMMERCIAL	1,106	697	676	(20)	(2.9)	57
58	COMMERCIAL (RING)	-	-	-	-	100.0	58
59	COMMERCIAL (SPRT)	-	410	424	15	3.5	59
60	DOMESTIC	16,158	16,230	18,360	(870)	(5.4)	60
61	SUB TOTAL 'C'	25,157	25,458	32,756	7,298	28.7	61
62	GRAND TOTAL SALES (A+B+C+D)	387,058	395,576	353,024	(42,532)	(10.8)	62
63	TOTAL RING SALES	27,246	76,793	69,985	20,127	26.2	63
64	TOTAL NG SALES	359,812	318,783	283,040	(35,743)	(11.2)	64

SUNNORTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES

Rupees Million

S.No.	CATEGORY	Determination FBR FY 2020-21	Determination FBR FY 2021-22	Determination FBR FY 2022-23	Value of Tax/GST Receivable Determination FY 2021-22	S.No.	
	INDIGENOUS GAS SALES				%		
1	POWER	39,316,409	15,358,710	15,022,842	(325.888)	(2.2)	1
2	NOORIABAD POWER PLANT	5,328,073	5,129,936	4,598,234	(529.752)	(10.5)	2
3	HABIBULLAH COASTAL POWER	5,147,982	3,065,489	4,598,234	1,532,745	50.0	3
4	CHENAI	297,399	166,689	155,874	(10.811)	(6.5)	4
5	FERTILIZER - FEEDSTOCK	5,212,950	5,636,054	3,468,273	(167.781)	(3.0)	5
6	CNG STATIONS	31,049,723	1,917,958	1,403,652	(380.258)	(26.5)	6
7	CAPTIVE POWER	45,496,762	27,328,449	23,895,909	(4,432,547)	(16.1)	7
8	CAPTIVE POWER (TEXTILE)	11,286,629	40,805,242	41,142,654	335,412	0.6	8
9	ZERO-RATED INDUSTRIES	14,764,805	38,079,374	25,110,348	(12,969,026)	(34.1)	9
10	GENERAL INDUSTRIES	43,551,154	34,472,680	27,629,473	(6,842,167)	(19.5)	10
11	COMMERCIAL	12,618,132	11,811,562	11,086,579	(730,983)	(6.3)	11
12	DOMESTIC	42,796,165	47,188,604	42,250,920	(4,937,684)	(11.7)	12
13	Decrease in Sales Value and GST due to Customers in Litigation			(5,630,623)	(3,630,633)	(100.0)	13
14	TOTAL	276,763,184	231,249,706	197,926,313	(33,323,393)	(14.2)	14
15	RLNG GAS SALES						15
16	POWER	29,826,751	118,321,813	119,327,447	(294,367)	(0.2)	16
17	HABIBULLAH COASTAL POWER	-	9,049,079	7,243,143	(5,805,936)	(20.0)	17
18	CNG STATIONS	-	35,421,961	28,032,919	(18,389,042)	(50.5)	18
19	CAPTIVE POWER	4,747,117	19,660,252	5,032,132	(10,628,141)	(24.1)	19
20	GENERAL INDUSTRIES	1,629,057	3,618,846	7,439,628	1,820,783	32.4	20
21	COMMERCIAL	1,598,924	3,086,017	3,619,872	533,855	17.3	21
22	DOMESTIC	-	133,534	-	(135,534)	(100.0)	22
23	TOTAL	17,921,849	193,796,503	164,863,120	(28,898,382)	(14.9)	23
24	GRAND TOTAL	324,709,053	425,046,209	362,821,433	(64,221,775)	(15.0)	24

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES

Table B-2.8

Repeat Moline							
S No	CATEGORY	Determination ERR FY 2020-21	Determination ERR FY 2021-22	Petition ERR FY 2022-23	Variance Inc./Dec./ Review Period FY 2021-22	S No	
					Determination FY 2021-22		
					%		
1	(A) KARACHI					2	
2	TOTAL INDUSTRIAL	207,146.977	300,923.818	247,426.823	453,496.595	(17.8)	2
3	POWER - KE (NG)	33,635.984	15,358.710	15,022.842	(135.868)	(7.7)	3
4	POWER - RLNG	39,826.751	119,821.813	219,527.447	(298.367)	(0.2)	4
5	CEMENT	288.215	151.310	114.907	(26.404)	(24.1)	5
6	FERTILIZER - Foodstock	5,212.950	5,636.054	5,468.273	(167.781)	(3.0)	6
7	FERTILIZER - Power	564.117	404.755	282.221	(212.534)	(52.5)	7
8	PAK STEEL	736.772	807.229	770.645	(36.584)	(4.5)	8
9	CNG STATIONS	27,448.094	688.595	431.868	(236.726)	(37.3)	9
10	CNG STATIONS (RLNG)	-	21,091.716	10,583.913	(10,507.803)	(49.8)	10
11	CAPTIVE POWER	30,494.745	18,210.538	12,760.432	(5,450.136)	(29.9)	11
12	CAPTIVE POWER (RLNG)	4,742.117	19,038.431	4,933.168	(14,105.092)	(74.2)	12
13	CAPTIVE POWER (TEXTILE) RLNG	-	-	3,064.236	(27,672.676)	(90.1)	13
14	CAPTIVE POWER (TEXTILE)	21,791.476	30,736.913	30,347.520	(7,157.394)	(19.1)	14
15	ZERO-RATED INDUSTRIES	14,554.106	37,504.825	24,726.581	22,157.515	96.7	15
16	GENERAL INDUSTRIES (RLNG)	860.519	2,369.068	7,541.572	-	-	16
17	GENERAL INDUSTRIES	36,786.051	20,173.863	15,939.054	(12,164.809)	(45.2)	17
18							18
19	COMMERCIAL	9,231.241	8,652.336	8,117.179	(536.166)	(6.2)	19
20	COMMERCIAL (RLNG)	1,460.316	2,403.848	2,888.922	485.075	20.2	20
21	COMMERCIAL (SPRT)	-	154.166	149.825	15.659	11.7	21
22	DOMESTIC (RLNG)	-	56.453	-	(36.483)	(100.0)	22
23	DOMESTIC	24,565.440	27,186.372	24,105.466	(3,080.907)	(11.3)	23
24	SUB TOTAL 'A'	242,103.973	339,356.992	282,689.214	456,668.778	(16.7)	24
25							25
26	(B) SINDH EXCLUDING KARACHI						26
27	TOTAL INDUSTRIAL	53,425.658	48,588.605	41,894.114	(6,694.491)	(13.8)	27
28	POWER - WAPDA	2,580.446	-	-	-	100.0	28
29	NOORABAD POWER PLANT	3,328.073	5,125.986	4,398.214	(125.752)	(10.3)	29
30	CEMENT	9,084	15.375	10.531	(8.844)	(51.3)	30
31	CNG STATIONS	12,204.985	472.460	811.719	139.259	29.5	31
32	CNG STATIONS (RLNG)	-	15,330.245	7,449.005	(7,881.239)	(51.4)	32
33	CAPTIVE POWER	14,567.411	9,196.689	10,254.048	927.359	10.1	33
34	CAPTIVE POWER (RLNG)	-	641.821	48.377	(593.744)	(92.5)	34
35	CAPTIVE POWER (TEXTILE) RLNG	-	-	1,036.459	(5,161.871)	(90.7)	35
36	CAPTIVE POWER (TEXTILE)	9,495.153	10,168.330	10,728.428	-	-	36
37	ZERO-RATED INDUSTRIES	210.658	574.530	346.909	(227.640)	(39.6)	37
38	GENERAL INDUSTRIES (RLNG)	798.539	3,249.778	1,895.055	646.375	19.9	38
39	GENERAL INDUSTRIES	4,931.269	2,715.372	2,964.649	(750.722)	(20.2)	39
40							40
41	COMMERCIAL	2,008.658	(824.031)	1,624.088	(199.943)	(11.0)	41
42	COMMERCIAL (RLNG)	138.608	683.169	730.950	48.780	7.2	42
43	COMMERCIAL (SPRT)	-	20.873	24.624	4.550	22.7	43
44	DOMESTIC (RLNG)	-	79.081	-	(79.081)	(100.0)	44
45	DOMESTIC	10,619.876	12,171.695	11,789.738	(1,381.958)	(11.4)	45
46	SUB TOTAL 'B'	66,192.800	63,365.655	58,063.513	(8,302.142)	(13.1)	46
47							47
48	(C) BALUCHISTAN						48
49	TOTAL INDUSTRIAL	7,414.178	13,309.069	20,179.758	6,870.689	51.6	49
50	POWER - WAPDA	-	-	-	-	100.0	50
51	HABIBULLAH COASTAL POWER (NG)	5,147.982	2,065.489	4,598.234	1,532.745	50.0	51
52	HABIBULLAH COASTAL POWER (RLNG)	-	9,049.070	7,243.743	(1,805.326)	(20.0)	52
53	CEMENT	-	-	20.437	-	-	53
54	CNG STATIONS	1,395.644	751.897	360.055	(391.852)	(52.1)	54
55	CNG STATIONS (RLNG)	-	-	-	-	100.0	55
56	CAPTIVE POWER	34.607	21.273	101.452	80.229	100.0	56
57	CAPTIVE POWER (TEXTILE)	-	-	66.706	66.706	100.0	57
58	ZERO-RATED INDUSTRIES	-	-	36.838	-	-	58
59	GENERAL INDUSTRIES (RLNG)	-	-	-	-	-	59
60	GENERAL INDUSTRIES	534.945	421.381	7,742.863	7,721.482	1,737.5	60
61							61
62	COMMERCIAL	3,378.236	894.122	867.865	(26.257)	(2.9)	62
63	COMMERCIAL (RLNG)	-	-	-	-	100.0	63
64	COMMERCIAL (SPRT)	-	286.834	296.999	10.165	3.5	64
65	DOMESTIC	7,640.849	7,840.536	7,355.717	(474.819)	(6.1)	65
66	SUB TOTAL 'C'	16,103.260	22,320.561	28,700.330	6,379.778	28.6	66
67	GRAND TOTAL SALES (A+B+C+D)	324,700.033	425,043.209	366,452.066	458,591.143	(13.8)	67
68	TOTAL RLNG SALES	47,931.849	193,793.503	164,895.120	(28,898.382)	(14.9)	68
69	TOTAL NG SALES	276,768.184	231,249.706	201,556.946	(29,692.760)	(12.8)	69
70	Decrease in Sales Value and GDS due to	-	-	3,630.633	3,630.633	-	70
71	TOTAL Net Sales & GDS	276,768.184	231,249.706	197,926.313	(33,323.393)	(14.4)	71

SUT SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES

Rupees Million

S. No.	CATEGORY	Determination FYR FY 2021-22	Revised FYR FY 2022-23	Variance for FYR Revised FYR FY 2021-22	%	S. No.
	INDIGENOUS GAS SALES					
1	POWER	1,382.105	1,351.881	(30.224)	(2.2)	1
2	KORIABAD POWER PLANT	461.099	413.787	(47.312)	(10.3)	2
3	HAIBDULLAH COASTAL POWER	255.858	413.787	137.929	50.0	3
4	CEMENT	64.889	60.680	(4.209)	(6.5)	4
5	TEXTILE/WEAR - FEEDSTOCK	(8,918.402)	(8,652.908)	265.493	(3.0)	5
6	CNG STATIONS	814.513	595.964	(218.550)	(26.8)	6
7	CAPTIVE POWER	7,791.867	6,525.455	(1,266.372)	(16.0)	7
8	CAPTIVE POWER (TEXTILES)	3,468.539	3,482.639	14.100	0.4	8
9	ZERO-RATED INDUSTRIES	1,818.883	1,199.410	(619.473)	(34.1)	9
10	GENERAL INDUSTRIES	8,556.417	2,187.440	(6,368.977)	(74.5)	10
11	COMMERCIAL	4,408.529	4,166.502	(242.027)	(5.5)	11
12	DOMESTIC	(37,867.238)	(38,858.741)	(991.503)	(2.6)	12
13	Decrease in Sales Value and Sales due to Customers in Liquidation		(3,596.633)	(3,596.633)	100.0	13
14	TOTAL	117,362.941	122,810.697	5,447.756	4.6	14

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Table # 8-1.2

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES

Rupees Million

Receipts Analysis						
S.No.	CATEGORY	Demonstrated ERR FY 2021-22	Politen ERR FY 2022-23	Variances for 2021-22 Revenue Declined over Demonstrated FY 2021-22	S.No.	
				%		
1	(A) KARACHI				1	
2	TOTAL INDUSTRIAL	10,232,397	4,678,005	(5,554,392)	(54.3)	2
3	POWER - (RLNG)	1,382,185	1,351,881	(30,224)	(2.2)	3
4	POWER - (RLNG)	-	-	-	100.0	4
5	CEMENT	58,909	61,732	(14,173)	(24.1)	5
6	FERTILIZER - Feedstock	(8,918,402)	(8,652,908)	265,493	(3.0)	6
7	FERTILIZER - Power	66,192	45,683	(50,519)	(52.5)	7
8	PAK STEEL	209,941	208,426	(9,515)	(4.5)	8
9	CNG STATIONS	290,801	182,383	(108,418)	(37.3)	9
10	CNG STATIONS (RLNG)	-	-	-	100.0	10
11	CAPTIVE POWER	5,145,189	3,605,312	(1,539,876)	(29.9)	11
12	CAPTIVE POWER (RLNG)	-	-	-	100.0	12
13	CAPTIVE POWER (TEXTILE) (RLNG)	-	-	(1,791,439)	(168.9)	13
14	CAPTIVE POWER (TEXTILE)	2,601,815	2,568,823	2,568,853	143.4	14
15	ZERO-RATED INDUSTRIES	1,791,439	1,381,079	(6,395,336)	100.0	15
16	GENERAL INDUSTRIES (RLNG)	-	-	-	-	-
17	GENERAL INDUSTRIES	7,574,415	4,150,565	(3,423,849)	(45.2)	17
18						18
19	COMMERCIAL	3,892,956	3,183,098	(209,858)	(6.2)	19
20	COMMERCIAL (RLNG)	-	-	-	-	20
21	COMMERCIAL (SPRT)	(15,310)	(17,095)	(1,785)	-	21
22	DOMESTIC (RLNG)	-	-	-	100.0	22
23	DOMESTIC	(23,049,524)	(21,807,618)	1,241,904	(5.4)	23
24	SUB TOTAL 'A'	(9,139,779)	(13,963,612)	(4,824,133)	47.9	24
25						25
26	(B) SINDH EXCLUDING KARACHI					26
27	TOTAL INDUSTRIAL	5,147,738	5,763,484	115,747	2.3	27
28	POWER - WAPDA	-	-	-	100.0	28
29	MOORABADI POWER PLANT	461,095	413,787	(47,312)	(10.3)	29
30	CEMENT	3,955	4,100	(1,885)	(31.5)	30
31	CNG STATIONS	199,525	258,336	58,811	29.5	31
32	CNG STATIONS (RLNG)	-	-	-	-	32
33	CAPTIVE POWER	2,626,678	2,891,519	264,841	10.1	33
34	CAPTIVE POWER (RLNG)	-	-	-	100.0	34
35	CAPTIVE POWER (TEXTILE) (RLNG)	-	-	-	100.0	35
36	CAPTIVE POWER (TEXTILE)	861,728	908,136	47,411	5.5	36
37	ZERO-RATED INDUSTRIES	27,544	16,579	(10,973)	(39.6)	37
38	GENERAL INDUSTRIES (RLNG)	-	-	-	-	38
39	GENERAL INDUSTRIES	965,279	771,034	(195,245)	(20.2)	39
40						40
41	COMMERCIAL	715,282	636,875	(78,406)	(11.0)	41
42	COMMERCIAL (RLNG)	-	-	-	-	42
43	COMMERCIAL (SPRT)	(2,291)	(2,810)	(4,819)	-	43
44	DOMESTIC (RLNG)	-	-	-	100.0	44
45	DOMESTIC	(9,991,021)	(9,428,123)	562,898	(5.6)	45
46	SUB TOTAL 'B'	(4,130,292)	(3,530,573)	599,719	(14.5)	46
47						47
48	(C) BALUCHISTAN					48
49	TOTAL INDUSTRIAL	715,633	2,630,685	1,915,052	267.6	49
50	POWER - WAPDA	-	-	-	-	50
51	FABULLAH COASTAL POWER (NG)	275,838	411,787	137,929	50.0	51
52	FABULLAH COASTAL POWER (RLNG)	-	-	-	-	52
53	CEMENT	-	11,849	-	-	53
54	CNG STATIONS	324,188	55,246	(168,942)	(52.1)	54
55	CNG STATIONS (RLNG)	-	-	-	-	55
56	CAPTIVE POWER	-	28,564	28,609	100.0	56
57	CAPTIVE POWER (TEXTILE)	3,596	5,647	(6,350)	-	57
58	ZERO-RATED INDUSTRIES	-	1,761	-	-	58
59	GENERAL INDUSTRIES (RLNG)	-	-	-	-	59
60	GENERAL INDUSTRIES	229,591	2,013,732	1,904,141	5,237.2	60
61						61
62	COMMERCIAL	350,624	340,327	(10,297)	(2.9)	62
63	COMMERCIAL (RLNG)	-	-	-	-	63
64	COMMERCIAL (SPRT)	(32,732)	(33,892)	(1,160)	(3.5)	64
65	DOMESTIC	(4,826,694)	(4,622,999)	203,695	(4.2)	65
66	SUB TOTAL 'C'	(3,793,169)	(1,685,879)	2,107,290	(58.6)	66
67	GRAND TOTAL SALES (A+B+C+D)	(13,562,911)	(19,180,664)	(1,817,123)	11.5	67
68	TOTAL RLNG SALES					68
69	TOTAL NG SALES					69
70	Decrease in Sales Value and GDS due to		3,630,633	3,630,633		70
71	TOTAL Net Sales & GDS	(13,562,941)	(22,810,697)	(5,447,756)	31.4	71

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Table # B-4.1

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

MMCF

S No	Description	ERR Determination FY 2021-22	Revenue Petition FY 2021-22	Revenue Petition FY 2021-22 With Volume Handled	ERR Volume FY 2022-23 Indigenous	ERR Petition FY 2022-23 RLNG	ERR Petition FY 2022-23 Total	Petition FY 2022-23 With Volume Handled	S No
1	Gross Purchases	371,680	367,031	367,031	350,480		350,480	350,480	1
2	Purchases - RLNG held stock			83,472		75,580	75,580	75,580	2
3	Gas handled on behalf of SNGPL / LNG Allocation			352,140		362,420	362,420	362,420	3
4	Gross Purchases	371,680	367,031	802,643	350,480	438,000	788,480	788,480	4
5	Gas Consumed Internally - metered	887	1,149	2,746	1,037		1,037	1,037	5
6	Available for Sale	370,793	365,882	799,897	349,443	438,000	787,443	787,443	6
7									7
8	Gas Sales	325,289	320,640	320,640	288,876		288,876	288,876	8
9	Net Sales - RLNG held stock			70,241		66,336	66,336	66,336	9
10	Desmed Sales - (recovered from RLNG customer through pricing)			11,633	21,627	(11,627)	-	-	10
11	Gas handled on behalf of SNGPL / LNG Allocation			352,140		374,048	374,048	374,048	11
12	RLNG UFG						-	9,243	12
13	Gas Shrinkage	40	40	40			-	-	13
14		325,329	320,680	754,694	300,443	428,757	729,200	729,443	14
15									15
16	Gas Unaccounted For	45,464	45,202	45,202	49,000	9,243	58,243	49,000	16
17	Gas Unaccounted For (%)	12.23%	12.32%	5.63%	13.98%	12.23%	7.39%	6.21%	17
18									18
19	Disallowed volumes - MMCF	22,048	22,079	-	26,920		8,569	-	19
20	Allowable Gas Unaccounted For	23,416	23,123	50,566	22,080		49,674	49,674	20
21	Effective UFG Benchmark (i)	6.30%	6.30%	6.30%	i) 6.30%		6.30%	6.30%	21
22	WACOG - Rs per MCF	558.01	558.01	558.01	ii) 558.01		558.01	558.01	22
23	Disallowed value over & above UFG targets - Rs Million	12,303	12,320	-	iii) 15,091		-	-	23
24	UFG adjustments on RLNG volume handled basis			12,320				15,091	24

Note:-

- (i) Adjusted on the basis of CIEG study while claiming benchmark at 6.30%
(ii) Rate as per determination for FY 2021-22 dated 17 August 2022, may change as per CIEG determinations for FY 2021-22
(iii) Disallowance for indigenous gas should not be more than Rs 750 million as per rule 20(i) of Natural Gas Tariff Rule 2002.
(iv) UFG estimates are based on the assumption that actual UFG of the system will be borne by RLNG customers on RLNG sales as per ECC decisions.

RLNG injected to SSGC system	A	422,381	458,000
GIC		1,597	1,623
Transmission Loss		887	761
Gas Swapped to SNGPL		352,140	371,664
Gas Sales to Customers		70,241	66,336
	B	424,805	460,381
Excess Delivered to SNGPL	C=B-A	2,484	2,381
Additional Gas required for Sales to Customers	D	9,150	9,243
Energy imbalance	C+D	11,633	11,627

Table # B-4.2

SUI SOUTHERN GAS COMPANY LIMITED
UN-ACCOUNTED FOR GAS

MMCF

S.No.	Description	ERR Petition FY 2021-22	ERR Petition FY 2022-23	S.No.
1	Gross Purchases	371,680	350,480	1
2	Purchases - RLNG held stock	85,860	75,580	2
3	Gross Purchases	457,539	426,060	3
4	Gas Consumed Internally	3,149	1,453	4
5	Available for Sale	454,391	424,607	5
6				6
7	Gas Sales	375,289	288,816	7
8	Purchases - RLNG held stock	73,049	66,336	8
9	Deemed Sales - (recovered from RLNG customer through pricing)	11,214	11,627	9
10	Add: Gas Shrinkage	40	-	10
11		409,592	366,780	11
12				12
13	Gas Unaccounted For	44,799	57,827	13
14	Gas Unaccounted For (%)	9.86%	13.62%	14

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

Rupees Million

S.No.	DESCRIPTION	Preparation ERR FY 2021-22 Dec-17-28 2027	Review ERR FY 2021-23	Policy YAR FY 2021-23	Variance for QTR 1 over FY-ERR	S.No.
1 a	Salaries, wages, and benefits	16,991,000	16,991,000	17,87,000	196,000	1.2
1 b	Third party casual works existing cost reclassification from repair & maintenance		5,322,000	-	-	1.1
1 c	Contractual impact of third party casual workers injection		1,575,000	-	-	1.3
1 d	HR Cost allocation to RLNG	(3,089,000)	(3,089,000)	-	3,089,000	(100.0)
1	Sub-total HR cost	13,902,000	14,432,000	17,187,000	3,285,000	23.6
2	Gas consumed internally	346,419	748,753	886,236	339,807	62.3
3	Other T&D Cost					
4 a	Printing & Stationery			25,000	25,000	100.0
4 b	Gas Bill Printing Charges			145,000	145,000	100.0
4 c	Stores & spares consumed			754,739	754,739	100.0
4	Sub-total stores, spares, stationery and gas bill printing	798,980	1,498,000	924,739	126,739	15.9
5	Material used on consumers installations	36,000	36,000	20,000	(16,000)	(44.4)
6	Electricity	290,000	290,000	280,000	(10,000)	(3.4)
7	Rent, rate & taxes	279,867	279,867	271,199	(8,667)	(3.0)
8	Traveling	121,254	121,254	105,105	(16,149)	(13.3)
9	Insurance & royalty	131,952	131,967	127,385	(4,577)	(3.5)
10 a	Postage & courier charges			21,946	21,946	100.0
10 b	Bill delivery through contractor			132,700	132,700	100.0
10	Sub-total postage & bill delivery	124,000	145,000	154,646	30,646	24.7
11 a	Repairs & Maintenance	1,147,495	1,147,495	2,643,013	1,497,518	130.5
11 b	Software development & maintenance	220,000	220,000	263,100	43,100	21.4
11	Sub-total repair & maintenance	1,367,495	1,367,495	2,906,113	1,540,618	111.6
12	Legal & Professional Charges	140,000	140,000	137,870	(2,130)	(1.5)
13	License Fee to OGRA	283,374	357,774	47,000	(196,374)	(69.3)
14	Meter reading by contractors	95,000	146,300	55,000	(40,000)	(36.6)
15	Collecting agent commission	3,000	3,000	-	(3,000)	(100.0)
16	Security expenses	785,000	785,000	868,001	83,001	10.6
17	Gas bills collection charges	245,157	245,157	245,291	1,144	0.5
18	Advertisement	123,000	123,000	118,000	(5,000)	(4.1)
19	Communication	34,000	34,000	61,600	27,600	79.4
20	Others	103,000	103,000	118,908	15,908	15.5
21	Sub-total other T&D cost	4,963,909	5,642,109	6,604,355	1,640,746	33.0
22	GROSS T&D COST	19,411,318	22,792,862	24,677,381	5,265,052	27.1
23	Less: Recoveries / Allocations	1,651,534	2,051,534	2,077,357	25,823	1.5
24	Net Transmission & Distribution Cost	17,759,785	20,741,328	22,600,024	5,239,229	30.2
25	POLICY CHANGE PURSUANT TO APPLICATION OF IFRIC4					
26	Less: Recovery of share of gas transmission	281,869	281,869	256,037	(25,832)	(9.2)
27	Net Transmission & Distribution Cost NG	17,078,934	20,459,468	22,343,987	5,265,052	30.3
28	Add: Project Cost RLNG					
29	HR Cost allocation to RLNG	3,089,000	3,089,000	-	(3,089,000)	(100.0)
30	Revenue expenditure relating to RLNG	140,000	140,000	240,515	57,515	32.4
31	RLNG - Gas Consumed Internally	-	1,477,052	-	-	100.0
32	Sub-total Project Cost RLNG	3,229,000	5,160,052	240,515	(3,031,485)	(90.6)
33	GRAND TOTAL	20,307,934	27,619,520	22,584,502	2,233,567	11.0

Note: - A : Treatment pursuant to IFRIC-4
+ HR Benchmark

Particulars	Base year FY 2020-21	FY 2021-22		Base year FY 2020-21	FY 2022-23		FY 2022-23
		NC	RLNC		NC	RLNC	
PER BENCHMARK COST PARAMETERS							
Base Cost	14,936			14,936			14,936
CT factor							
1.45 network (km)	32,941	28,250		32,941			32,941
Number of Consumers							
(No.)	3,336,151	3,092,989	3,336,151	3,336,151	3,092,989	3,336,151	3,336,151
Sales Volume (MMCF)	830,034	925,289	830,034	830,034	925,289	830,034	830,034
Unit Rate (Rs./MMCF)							
1&D network (Rs./Km)	285,659	-		285,659			285,659
No. of Consumers							
(Rs./Consumer)	4,477	-		4,477			4,477
Sale Volume (Rs./MMCF)							
Per Cost Build-up (Million Rs)	17,865	-		17,865			17,865
0% Cost CPE							
37% T&D network (km)	4,979	5,476		4,979	5,476		4,979
Number of Consumers							
39% (km)	4,979	5,476	45	4,979	5,476	45	4,979
39% Sales Volume (MMCF)	4,979	5,476	1,044	4,979	5,476	1,044	4,979
31% Benchmark Cost	14,936	12,845	2,089	14,936	12,845	2,089	14,936
14519							
Total per benchmark cost including 145-19							

**SUI SOUTHERN GAS COMPANY LIMITED
SCHEDULE OF DEPRECIATION**

Rupees Million

S No	DESCRIPTION	Determination ERR FY 2021-22 dt:17-08-2021	Review ERR FY 2021-22	Portion ERR FY 2022-23	S No
1	Building		75.708	90.068	1
2	Roads, pavements and related infrastructures		39.934	39.921	2
3	Gas transmission pipelines		514.189	512.722	3
4	Compressors		233.384	348.905	4
5	Plant and Machinery		263.321	289.974	5
6	Gas distribution systems		5,448.956	5,846.042	6
7	Office Furniture, equipment & computer		220.933	360.858	7
8	Computer Software (Intangible)		127.874	295.737	8
9	LPG Air Mix Projects		90.620	98.528	9
10	Telecommunication system		62.589	83.988	10
11	Appliances, loose tools and equipments		701.498	142.280	11
12	Vehicles		239.172	358.191	12
13	Construction equipment		105.442	53.359	13
14	SCADA		76.583	72.917	14
15			7,600.405	8,493.465	15
16	Less: Meter Manufacturing Plant		29.660	36.366	16
17	LPG Air Mix Projects		90.620	98.528	17
18	Depreciation charge to capital projects		102.128	53.236	18
19			222.608	188.233	19
20			7,377.997	8,305.232	20
21	POLICY CHANGE PURSUANT TO APPLICATION OF IFRIC-4				21
22	Less: 0 Recovery of an old cost (gas transmission)		60.929	60.929	22
23	Depreciation for NG	+ 7,008.935	7,316.868	8,244.303	23
24	Depreciation for RLNG	1,409.176	1,409.176	1,577.226	24

Note:- # Treatment pursuant to IFRIC-4.

+ Breakup not provided in Determination

Table # B-7

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

Rupees Million

S.No.	DESCRIPTION	Determination: ERR FY 2020-21	Petition: ERR FY 2021-22	Petition: ERR FY 2022-23	Variance Inc./(Dec.) over DERR		S.No.
1	<u>ZAMZAMA REVERSE FLOW</u>					%	1
2	<u>POLICY CHANGE PURSUANT TO APPLICATION OF IFRIC4</u>						2
3	Less and Transfer to:						3
4	Transmission & Distribution Cost	214.689	281.860	256.037	(25.823)	(9.2)	4
5	Depreciation	60.929	60.929	60.929	-	-	5
6	Return as financial income	29.913	25.527	5.112	(20.414)	(80.0)	6
7		305.531	368.316	322.079	(46.237)	(12.6)	7

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

S.No.	DESCRIPTION		Determination ERR FY 2021-22 dt:-17-08-2021	Review ERR FY 2021-22	Petition ERR FY 2022-23	S.No.
1	Total Capacity of the transportation pipeline	A	1,200.00	1,200.00	1,200.00	1
2	Shipper's Contracted Capacity	B	1,200.00	1,200.00	1,200.00	2
3	Capacity actually operated by the transporter	C	1,200.00	1,200.00	1,200.00	3
4	Capacity actually utilized by the Shipper	D	1,200.00	1,200.00	1,200.00	4
5						5
6	TRANSPORTATION COST	(Million Rupees)				6
7	Fixed Costs:					
8	Operating and maintenance cost		29	29	29	8
9	Depreciation on book value of the segment		1,409	1,409	1,577	9
10	ROA on book value of the segment		4,622	4,675	4,774	10
11		E	6,060	6,113	6,380	11
12	Variable Costs:					12
13	Compression fuel		-	1,888	-	13
14	WPPF		-	841	1,018	14
15	Other variable expenses, if any		3,243	3,243	212	15
16		F	3,243	7,973	1,230	16
17	TRANSPORTATION TARIFF					17
18	Capacity charges based on Shipper's contracted capacity against total capacity	$G=E*B/A$	6,060	6,113	6,380	18
19						19
20	Commodity charges based on volume actually transported against actually operated	$H=F*D/C$	3,243	7,973	1,230	20
21						21
22	Total Tariff for the year ✦	I	9,303	14,086	7,610	22
23						23
24	Monthly Tariff	J	775.250	1,173.808	634.183	24
25						25
26	Total volume Transported per month - MMCF	$K=D*365/12$	36,500	36,500	36,500	26
27						27
28	Transportation Tariff Rs. / MCF	$L=I/K*1000$	21.53	32.16	17.37	28
29						29
30	Transportation Tariff Rs. / MMBTU {Rate per MMBTU = Rs /MCF*1000/GCV}	$M=L*1000/1055$	20.41	30.48	16.47	30

Note:- ✦ The amount will be adjusted to the extent of allowance on account of RLNG volumes handling in the prices of RLNG.

Table # B-9.1

SUI SOUTHERN GAS COMPANY LIMITED
METER RENTAL

Rupees Million

S.No.	DESCRIPTION	Determination ERR FY 2021-22	Petition ERR FY 2022-23	Variance Inc./Dec.		S.No.
					%	
1	Domestic	1,620.022	1,680.094	60.072	3.7	1
2	Commercial	35.055	35.388	0.333	1.0	2
3	Industrial	37.863	37.438	(0.425)	(1.1)	3
4	Total	1,692.920	1,752.921	60.001	3.5	4
5						5
6	NG customers	1,671.711	1,726.064	54.353	3.3	6
7	RLNG customers	21.209	26.857	5.648	26.6	7
8	Total	1,692.920	1,752.921	60.001	3.5	8

**SUI SOUTHERN GAS COMPANY LIMITED
DEFERRED CREDIT**

Rupees Million

S.No	DESCRIPTION	Period ERR FY 2021-22	Revised Estimates ERR FY 2021-22				Periods ERR FY 2022-23				S.No.
			Consolidated	NG	LPG	RLNG	Consolidated	NG	LPG	RLNG	
1											1
2	Opening as at 31st July	5,254,200	5,662,607	7,056,464	313,626	392,556	7,760,526	7,044,396	281,134	474,996	2
3	Prior year Adjustments										3
4	Addition during the year	757,776	757,776	589,278	-	168,621	2,264,511	1,985,070	-	268,441	4
5		6,011,976	6,420,374	7,645,742	313,626	461,177	10,044,935	9,029,466	281,134	733,437	5
6	Amortization of Deferred Credit										6
7	Amortization as on 30th June	589,584	522,150	171,881	32,493	17,776	506,344	451,951	32,493	21,500	7
8	On addition of 5%	37,887	37,898	29,464	-	8,435	114,176	99,254	-	14,922	8
9		627,471	560,048	601,345	32,493	26,211	620,520	551,205	32,493	36,422	9
10	Closing as at 30th June	5,384,505	7,760,526	7,044,396	281,134	434,966	9,123,516	8,478,261	248,641	696,614	10
11											11
12	Note - Amortization of deferred										12
13	Gas Activity NG	555,699	601,345	601,345			551,205	551,205			13
14	LPG As: Mix Projects	41,773	58,704		32,493	26,211	69,375		32,493	36,822	14
15	Total	627,471	660,048	601,345	32,493	26,211	620,520	551,205	32,493	36,822	15

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

Rupees Million

S.No.	DESCRIPTION	Determination ERR FY 2020-21	Determination ERR FY 2021-22 dt: 17-08-2021	Petition ERR FY 2022-23	Variance Inc. (Dec)	%	S.No.
1	REVENUE FROM SALES OF LPG						1
2	Sale of LPG	1,923.521			-	-	2
3	Less: Processing charges	-			-	-	3
4	NET INCOME FROM LPG	1,923.521			(1,923.521)	(100.0)	4
5	50% Allowed	961.761			(961.761)	(100.0)	5
6							6
7	REVENUE FROM SALES OF NGL						7
8	Sales of NGL	1,110.835			-	-	8
9	Less: Processing charges	-			-	-	9
10	NET FROM NGL	1,110.835			(1,110.835)	(100.0)	10
11	50% Allowed	555.417			(555.417)	(100.0)	11
12							12
13	REVENUE FROM SALES OF CONDENSATE						13
14	Sales of Condensate	5.833	19.992	29.173	9.181	157.4	14
15	Less: Other charges	26.967	29.227	32.150	2.923	10.8	15
16	NET INCOME FROM CONDENSATE	(21.134)	(9.235)	(2.977)	6.258	(29.6)	16
17	50% Allowed	(10.567)	(4.617)	(1.489)	3.129	(29.6)	17
18							18
19	TOTAL NET INCOME FROM LPG, NGL & CONDE	3,013.222	(9.235)	(2.977)	6.258	0.2	19
20	50% Allowed	1,506.611	(4.617)	(1.489)	3.129	0.2	20

Note: + Working for FY 2020-21 are based on the decision of SC of Pakistan in its order in CMA No.2419-L/2018, CMA No.116-L/2015, CMA No.213-L/2014 and in Const. P No 5/2011 dated December 4, 2018.

+ The estimates from LPG and NGL income have not been incorporated in the instant Petition owing to the reason that the related agreement signed between SSGC and JVL pursuant to Supreme Court of Pakistan Order dated 4 December 2018 had expired in June 2020.

The agreement was valid for a period of 18 months starting from January 2019. However, if any agreement will be signed between the parties in future the LPG & NGL income estimates will be accounted for in revised estimates for the respective period.

Table # B-9.4

SUI SOUTHERN GAS COMPANY LIMITED
LATE PAYMENT SURCHARGE

Rupees Million

S.No.	DESCRIPTION	Determination ERR FY 2021-22	Petition ERR FY 2022-23	Variance Inc./(Dec.)		S.No.
					%	
1	Domestic Consumers	879.541	909.873	30.332	3.4	1
2	Commercial Consumers	72.262	74.185	1.923	2.7	2
3	General Industrial Consumers	73.854	77.042	3.188	4.3	3
4	Total	1,025.657	1,061.100	35.443	3.3	4

Table # B-9.5

SUI SOUTHERN GAS COMPANY LIMITED
METER MANUFACTURING PROFIT / (LOSS)

Rupees Million

S.No.	DESCRIPTION	Determination ERR FY 2020-21	Determination ERR FY 2021-22	Pestline ERR FY 2022-23	Variance Inc./(Dec.)		S.No.
1	<u>BOTH METERS</u>				%		1
2	NO. OF METERS PRODUCED	1,218,123	744,100	914,000	169,900	22.8	2
3							3
4	SNGPL	350,000	200,000	500,000	300,000	150.0	4
5	OTHERS		8,000	8,000		-	5
6	TOTAL OUTSIDE SALE	350,000	208,000	508,000	300,000	144.2	6
7	COMPANY CONSUMPTION	868,123	536,100	406,000	(130,100)	(24.3)	7
8	TOTAL SALE (NOS.)	1,218,123	744,100	914,000	169,900	22.8	8
9							9
10					Rupees Million		10
11	COMPANY'S CONSUMPTION	3,068.141	1,785.500	1,526.048	(259.552)	(14.5)	11
12	OUTSIDE SALE	1,337.029	574.923	2,001.329	1,426.406	248.1	12
13	NET SALES	4,405.170	2,360.523	3,527.377	1,166.854	49.4	13
14	MATERIAL CONSUMED	3,618.127	1,627.852	2,604.337	976.485	60.0	14
15	LABOUR & OVERHEAD	715.081	643.793	737.975	94.182	14.6	15
16	DEPRICIATION	14.469	29.660	36.366	6.706	22.6	16
18	COST OF SALES	4,347.677	2,301.305	3,378.678	1,077.373	46.8	18
19	TOTAL PROFIT	57.493	59.218	148.699	89.481	151.1	19

SUI SOUTHERN GAS COMPANY LIMITED
OTHER INCOME

Rupees Million

S.No.	DESCRIPTION	Determination ERR FY 2021-22	Pestion ERR FY 2022-23	Variance Inc./Dec.) Over DERR FY 2021-22	S.No.	
1	Intrest on term deposits	54.694	28.850	(25.844)	(47.3)	1
2	Intrest income on loan to related party	156.382	60.991	(95.391)	(61.0)	2
3	Intrest income from WAPDA	399.071	302.478	(96.593)	(24.2)	3
4	Interest income on late payment of gas bills from SNGPL	1,274.711	1,135.870	(138.841)	(10.9)	4
5	Rental income from SSGC LPG Pvt. Ltd	0.770	1.220	0.450	58.4	5
6	Income for receivable against asset contribution	32.026	27.096	(4.930)	(15.4)	6
7	Amortization of Government grant	46.008	-	(46.008)	(100.0)	7
8	Recoveries from consumers	86.000	84.549	(1.651)	(1.9)	8
9	Profit on sale of fixed assets	5.642	-	(5.642)	(100.0)	9
10	Dividend Income	11.298	4.100	(7.198)	(63.7)	10
11	Liquidated damages recovered	74.598	84.475	9.877	13.2	11
12	Income from sales of tender documents	5.837	5.335	(0.502)	(8.6)	12
13	Income from net investment in finance lease	26.547	5.112	(21.435)	(80.7)	13
14	Income from Pipeline Construction	30.000	-	(30.000)	(100.0)	14
15	Income against LNG service agreement	1,103.013	1,239.919	136.906	12.4	15
16	Others	30.000	30.000	-	-	16
17	TOTAL	3,338.697	3,009.795	(328.902)	(9.8)	17
18	NON-OPERATING INCOME			-		18
19	Profit/Intrest on term deposits	54.694	28.850	(25.844)	(47.3)	19
20	Intrest income on loan to related party	156.382	60.991	(95.391)	(61.0)	20
21	Intrest income from WAPDA	399.071	302.478	(96.593)	(24.2)	21
22	Intrest income & others recovery from SNGPL	135.732	135.732	-	-	22
23	Intrest income from SSGC LPG Pvt. Ltd	0.770	1.220	0.450	58.4	23
24	Income for receivable against asset contribution	32.026	27.096	(4.930)	(15.4)	24
25	Amortization of Government grant	46.008	-	(46.008)	(100.0)	25
26	Dividend Income	11.298	4.100	(7.198)	(63.7)	26
27	Liquidated damages recovered - 50%	37.299	42.237	4.938	13.2	27
28	Income from Pipeline Construction - 50%	15.000	-	(15.000)	(100.0)	28
29	Margin for LSA Management (RLNG)	1,103.013	1,239.919	136.906	12.4	29
30	Total	1,991.293	1,847.824	(143.469)	(7.5)	30
31	NET OF NON-OPERATING INCOME	1,345.304	1,161.971	(178.133)	(13.2)	31

SOUTHERN GAS COMPANY LIMITED
OTHER CHARGES

A No	DESCRIPTION	Determination ERR FY 2021-22 dt-17-08-2021	Review Position FY 2021-22			Position ERR FY 2022-23			S No
		Related to Natural Gas Customers	Commondate	Related to Natural Gas Customers	Related to LNG Customers	Commondate	Related to Natural Gas Customers	Related to LNG Customers	
1	Profit before tax & other charges	(5,776,659)	16,009,987	(3,000,563)	19,012,649	18,624,416	(3,523,283)	22,161,699	1
2	Less: Air/Mix LPG projects profit	159,237	161,059	161,059	-	160,684	160,684	-	2
3	Profit before tax & other charges	(5,355,926)	15,848,928	(3,148,722)	19,012,649	18,477,732	(3,682,967)	22,161,699	3
4	Less:								4
5	Financial charges	2,921,763	6,139,795	3,921,363	2,319,522	5,005,773	3,206,699	1,799,164	5
6	Sports club expenses	120,600	120,600	120,000	-	75,000	75,000	-	6
7	Provision social responsibility	95,000	98,000	98,000	-	25,000	25,000	-	7
8	Provision against impaired debts and other receivables	1,642,000	1,612,000	1,612,000	-	2,761,033	2,761,033	-	8
9	Other / auditor's fees	25,000	25,000	25,000	-	25,000	25,000	-	9
10		5,776,263	7,994,795	5,776,323	2,319,522	7,827,806	6,092,442	1,735,364	10
11	Sub-total operating profit	(11,312,189)	7,854,132	(8,974,955)	16,829,127	10,585,926	(9,776,609)	20,762,534	11
12	W/PF	-	811,456	-	847,456	1,018,127	-	1,018,127	12
13	Add: Other / auditor's fees	1,855,000	1,855,000	1,855,000	-	2,896,033	2,896,033	-	13
14	Total Other Charges	1,855,000	2,696,426	1,855,000	847,456	3,904,160	2,896,033	1,018,127	14
15	Less: Non-admissible								15
16	Sports club expenses	(60,000)	(60,000)	(60,000)	-	(37,500)	(37,500)	-	16
17	Corporate social responsibility	(49,000)	(49,000)	(49,000)	-	(12,500)	(12,500)	-	17
18	Provision against impaired debts and other receivables	(1,642,000)	-	-	-	-	-	-	18
19	Sub-total non-admissible	(1,721,000)	(109,000)	(109,000)	-	(50,000)	(50,000)	-	19
20	Net Other Charges	134,000	2,587,426	1,746,000	847,456	3,854,160	2,536,033	1,018,127	20

Note: Restricted as per determination

SCI SOUTHERN GAS COMPANY LIMITED
FINANCIAL CHARGES

Rupees Million

S.No.	DESCRIPTION	Determination PKR FY 2020-21	Determination PKR FY 2021-22	Petition PKR FY 2022-23	Variance Inc./(Dec.)		S.No.
						%	
1	Consumer Financing	2,220	2,220	2,220	-	-	1
2	Credit Allocation / New Loans	3,481,667	1,678,333	958,505	(719,833)	(42.9)	2
3	Short term borrowing	3,000,000	1,902,500	1,997,500	95,000	5.0	3
4	Local Bank Loans	4,949,218	2,218,522	1,540,764	(577,758)	(30.5)	4
5	Government of Sindh Loans	9,000	15,960	15,960	-	-	5
6	Gross Financial Charges	11,442,105	5,817,535	4,514,944	(1,302,591)	(22.4)	6
7							7
8	<u>LESS: INTEREST CAPITALIZED</u>	843,088	428,653	332,674	(95,979)	(22.4)	8
9						2%	9
10	<u>ADD: INTEREST ON OTHER CHARGES</u>						10
11	Consumer Deposits	492,503	492,503	492,503	-	-	11
12	Others	346,000	258,400	331,003	72,600	28.1	12
13		838,503	750,903	823,503	72,600	9.7	13
14	TOTAL FINANCIAL CHARGES	11,437,520	6,139,783	5,005,773	(1,134,012)	(18.5)	14
15	Less: Financial charges related to RLNG	3,064,389	2,218,522	1,799,764	(419,358)	(18.9)	15
16	NET FINANCIAL CHARGES	8,373,131	3,921,263	3,206,009	(714,654)	(18.2)	16

SLI SOUTHERN GAS COMPANY LIMITED
ADDITION TO FIXED AND INTANGIBLE ASSETS

Rupees Million

S.No.	DESCRIPTION	Determination ERR FY 2021-22 dt:-17-08-2021	Review ERR FY 2021-22	Petition ERR FY 2022-23	Variance	S.No.
1	Buildings	69.000	69.000	639.539	570.539	1
2	Gas Transmission Pipeline	-	-	10,981.000	10,981.000	2
3	Compressors	335.000	335.000	2,426.000	2,091.000	3
4	Plant and machinery	126.000	126.000	1,174.250	1,048.250	4
5	Gas distribution system and related facilities & equipments	4,264.000	9,138.000	15,140.525	10,876.525	5
6	Furniture, equipment including computers & allied equipments	130.000	284.501	440.175	310.175	6
7	Computer Software (Intangible)	33.000	521.300	447.640	414.640	7
8	LPG Air Mix Projects	9.780	9.780	105.610	95.830	8
9	Telecommunication system	35.000	70.250	39.582	4.582	9
10	App's., loose tools & equipt.	28.000	284.400	212.457	184.457	10
11	Vehicles	252.000	408.740	953.535	701.535	11
12	Construction equipment & vehicles	45.000	45.000	-	(45.000)	12
13	SCADA	22.000	44.750	-	(22.000)	13
14	TOTAL NG	5,348.780	11,336.721	32,560.313	27,211.533	14
15	TOTAL RLNG	243.000	243.000	5,058.063	4,815.063	15
16	GRAND TOTAL	5,591.780	11,579.721	37,618.376	32,026.596	16

Sul Southern Gas Company Limited
Schedule of Fixed and Transferable Assets at Cost / WDV - Per RGA

25. 26. 27.

[illegible]

Table # B-13.1

SUI SOUTHERN GAS COMPANY LIMITED
AIR MIX LPG PROJECTS

PROFIT AND LOSS ACCOUNT

Rs Million

S.No.	DESCRIPTION	Determination ERR FY 2021-22 dt:-17-08-2021	Review ERR FY 2021-22	Petition ERR FY 2022-23	Variance		S.No.
1	Gross Sales	162.640	162.640	132.842	(29.798)	(18.3)	1
2	GST	23.631	23.631	19.302	(4.330)	(18.3)	2
3	Sales net of GST	139.008	139.008	113.540	(25.468)	(18.3)	3
4	Subsidy	942.095	943.917	1,373.977	430.982	45.7	4
5	Net Sales Revenue & Subsidy	1,081.103	1,082.925	1,486.617	405.514	37.5	5
6	Cost of Gas	729.958	729.958	1,119.148	389.190	53.3	6
7	Gross Profit	351.145	352.967	367.468	16.324	4.6	7
8	Operating Cost	145.010	145.010	154.775	9.765	6.7	8
9	Depreciation	90.620	90.620	98.528	7.907	8.7	9
10	Meter Rent	(3.192)	(3.192)	(5.268)	(2.076)	65.0	10
11	Late Payment Surcharge	(8.757)	(8.757)	(8.673)	0.083	(1.0)	11
12	Amortisation of deferred credit / other income	(31.773)	(31.773)	(32.577)	(0.804)	2.5	12
13		191.908	191.908	206.784	14.876	7.8	13
14	Profit Before Tax	159.237	161.059	160.684	1.447	0.9	14

SUI SOUTHERN GAS COMPANY LIMITED
AIR MIX LPG PROJECTS
WORKING FOR SUBSIDY

Rs Million

S.No.	DESCRIPTION	Determination ERR FY 2021-22 dt:-17-08-2021	Review ERR FY 2021-22	Petition ERR FY 2022-23	Variance		S.No.
1	Gross Sales	162.640	162.640	132.842	(29.798)	(18.2)	1
2	GST	23.631	23.631	19.302	(4.330)	(18.3)	2
3	Sales net of GST	139.008	139.008	113.540	(25.468)	(18.3)	3
4	Cost of Gas	729.958	729.958	1,119.148	389.190	53.3	4
5	Gross Profit	(590.950)	(590.950)	(1,005.606)	(414.656)	70.2	5
6	Operating Cost	145.010	145.010	154.775	9.765	6.7	6
7	Depreciation	90.620	90.620	98.528	7.907	8.7	7
8	Meter Rent	(3.192)	(3.192)	(5.268)	(2.076)	65.0	8
9	Late Payment Surcharge	(8.757)	(8.757)	(8.673)	0.083	(1.0)	9
10	Amortisation of deferred credit / other income	(31.773)	(31.773)	(32.577)	(0.804)	2.5	10
11	Total Operating Cost	191.908	191.908	206.784	14.876	7.8	11
12	Disallowed Subsidy - Surab				-	-	12
13	Shortfall in Revenue	(782.858)	(782.858)	(1,212.393)	(429.535)	54.9	13
14							14
15	<u>Revenue Requirement</u>						15
16	Annual Natural Gas Sales Volume	318,783	318,783	283,040	(35,743)	(11.2)	16
17							17
18	Shortfall-LPG Normal Operation	782.858	782.858	1,212.393	429.535	54.9	18
19	Return on Assets	159.237	161.059	160.684	1.447	0.9	19
20	WPPF				-	-	20
21	Total Shortfall	942.095	943.917	1,373.077	430.982	45.7	21
22	Price Increase per MMBTU	2.96	2.96	4.85	1.90	64.2	22

Schedule of LPG Air Mix Fixed Assets at Cost / WDV
FOR FY 2021-22

Rs Million

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RATE OF RETURN %	PERCENT ERR FY 2021-22			DERR	MFR	PERCENT ERR FY 2022-23		
	Opening Balance as on (01-07-2021)	Additions	Closing Balance as on (30-06-2022)			Opening Balance as on (01-07-2022)	Additions	Closing Balance as on (30-06-2023)
GAWADAR	16.76%			26.06%	26.79%	18.95%		
COST	172,645	7,230	179,875			172,175	57,140	229,315
DEP	95,578	7,278	102,856			106,850	7,451	114,302
WDV	77,067		87,019			65,319		117,008
Deferred credit	1,404		1,404			1,551		1,467
Net Average Fixed Assets	71,362	88,854	65,768	65,863	65,865	65,768	90,654	115,541
Net Return on Assets		11.542		11.432	11.562		15.021	
STRAB								
COST	272,716	0,520	273,236			275,266	16,440	289,706
DEP	141,884	10,293	152,177			152,177	13,547	165,723
WDV	130,832		121,059			121,089		123,985
Deferred credit	99,185		88,693			88,698		72,636
Net Average Fixed Assets	31,667	32,919	32,391	32,019	32,019	32,391	41,869	51,347
Net Return on Assets		5.966		5.315	5.376		7.839	
NOSHIKI								
COST	521,546	2,650	524,196			526,196	8,570	534,766
DEP	224,445	11,118	235,563			237,303	26,375	263,678
WDV	297,101		288,633			288,893		240,848
Deferred credit	110,953		102,176			102,176		91,775
Net Average Fixed Assets	148,147	177,502	166,457	177,302	177,302	166,457	157,765	149,073
Net Return on Assets		39.746		29.432	29.769		26.489	
KOT GHULAM								
COST	305,461	2,150	307,611			308,611	16,040	324,651
DEP	170,166	17,208	187,374			182,374	13,915	197,289
WDV	135,295		120,237			126,237		126,863
Deferred credit	207,852		95,428			95,428		84,230
Net Average Fixed Assets	22,441	29,136	30,810	29,126	29,126	26,810	76,721	42,633
Net Return on Assets		4.882		4.885	4.870		6.166	
AWARAN & DELA								
COST	809,543	2,200	811,743			812,043	7,420	819,443
DEP	145,136	27,724	172,860			172,560	25,740	198,300
WDV	664,407		638,883			639,483		520,843
Deferred credit	-		-			-		-
Net Average Fixed Assets	664,407	631,945	638,883	631,945	631,945	639,483	530,015	620,543
Net Return on Assets		100.366		100.223	100.462		105.719	
OVERALL								
COST	2,083,517	9,780	2,093,297			2,093,291	105,510	2,198,801
DEP	780,205	80,620	860,825			870,830	98,535	969,359
WDV	1,303,312		1,232,472			1,222,462		1,229,544
Deferred credit	319,395		287,852			287,853		250,308
Net Average Fixed Assets	263,907	959,258	934,609			914,609	957,023	979,437
Net Return on Assets		160.772		150.237	161.059		160.684	
Shortfall-LPG Normal Operations		782,858		782,858	782,858		1,212,393	
Total Shortfall / Subsidy		943,639		942,895	943,917		1,373,077	
Shortfall-LPG Normal Operations								
GAWADAR		194,269					140,185	
STRAB		152,100					265,654	
NOSHIKI		180,273					386,785	
KOT GHULAM		144,016					221,515	
AWARAN & DELA		154,075					291,720	
Shortfall-LPG Normal Operations		782,858					1,212,393	

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SUI SOUTHERN GAS COMPANY LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2022-23

SECTION - C

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

DESCRIPTION	Table #
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Weighted average cost of gas of both companies	C-8
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SUI SOUTHERN GAS COMPANY LIMITED
TARIFF CALCULATION SHEET
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2022-23

Particulars	Petition FY 2022-23	
	Related to Natural Gas Customers	Related to LNG Customers
1 Gas Sales		
1A MMCF	288,816	66,336
1B BBTU	283,040	69,985
1C Average Calorific Value per MMCF	980	1,055
1D Energy delivered in MMBTU Rs Million		462,090
2 Net Operating Revenues		
Net Gas Sales at current Prescribed Price	197,926.313	164,895.120
RLNG Transportation Income	-	7,610.199
Net Sale of Condensate	(1,489)	-
Meter rentals	1,726.064	26.857
Amortization of deferred credit	583.698	35.822
Late payment Surcharge	1,061.100	-
Meter manufacturing plant profit/ (loss)	74.350	-
Other income	1,167.171	-
2A Total Income	202,537.207	172,568.999
Less: Operating Expenses		
Cost of gas	263,597.660	171,721.726
Adjustment in cost of gas for UFG above allowable limit	-	-
UFG adjustments on RLNG volume handled basis (ring fenced)	(15,021.485)	15,021.485
Transmission and distribution cost	21,457.761	240.515
Gas Internally Consumed	886.226	-
Depreciation	8,244.303	1,577.226
Other charges including WPPF	2,836.033	1,018.127
2B Total Expenses	282,000.499	189,579.079
2C Return available (2A - 2B)	(79,463.292)	(17,010.080)
3 Required Return on Net Fixed Assets		
Net Operating Fixed Assets at Beginning	36,083.360	26,825.955
Net Operating Fixed Assets at End	58,754.658	30,045.174
3A	94,838.019	56,871.129
3B Average Net Operating Fixed Assets (3A / 2)	47,419.009	28,435.565
3C Required Return on Net Assets - In Percentage	16.79%	16.79%
3D Required Return (3B x 3C)	7,961.652	4,774.331
4 Shortfall / (Surplus) in Gas Operation (3D-2C)	87,424.943	21,784.412
6 Subsidy for LPG Air Mix Projects over & above Gas Operation	1,373.077	-
8 Total Shortfall in Revenue Requirement	88,798.020	21,784.412
Rupees per MMBTU (w.e.f. 1 July 2021)	313.73	47.14

SUI SOUTHERN GAS COMPANY LIMITED

PROFIT AND LOSS ACCOUNT

Petition ERR FY 2022-23

Description	Determination ERR FY 2021-22 Jl-17-08-2021						
		Review Petition FY 2021-22	Related to Natural Gas	Related to LNG	Petition ERR FY 2022-23	Related to Natural Gas Customers	Related to LNG Customers
Sales							
MMCF	325,289	390,882	320,640	70,241	355,352	288,816	66,536
BBTU	318,783	388,248	314,911	73,337	357,024	283,040	69,983
Rupees Million							
Return required on net assets							
Net assets at the beginning	40,137	68,453	40,026	28,427	62,909	36,085	26,826
Net assets at the end	38,020	70,964	43,703	27,261	88,800	58,755	30,045
Average net operating fixed assets	39,079	69,709	41,865	27,844	75,855	47,419	28,436
Required return	6,487	11,704	7,029	4,675	12,736	7,562	4,774
Gas sales net of sales tax	231,250	413,798	227,426	186,369	362,821	137,926	164,895
Less: Gas Development Surcharge after adjustments	(16,421)	177,551	177,551	-	1,775	1,373	-
At current tariff	247,671	236,244	49,875	186,369	361,448	196,553	164
Tariff Adjustment Required	-	243,990	213,172	30,817	110,582	88,798	21,784
Net gas sales	247,671	480,234	263,048	217,186	472,031	285,351	(86,680)
Other Revenue							
RLNG Transportation Income	-	14,086	-	14,086	7,610	-	7,610
Net Sale of Condensate	(9)	(9)	(9)	-	(3)	(3)	-
Meter rentals	1,672	1,695	1,672	21	1,753	1,726	27
Recognition of income against deferred credit	596	596	596	-	627	584	37
Late payment surcharge	1,026	1,026	1,026	-	1,067	1,061	-
Meter manufacturing plant profit	39	59	59	-	149	149	-
Air Mix LPG projects profit	239	161	161	-	161	161	-
Other income	2,098	3,337	2,098	1,239	3,010	1,574	1,376
Other Revenue	5,600	20,948	5,602	15,346	14,361	5,311	9,050
Revenues	253,271	501,182	268,650	232,532	486,392	290,663	195,729
Expenses							
Cost of gas	234,360	448,748	243,911	204,887	435,319	263,598	171,722
Transmission and distribution costs	17,679	27,620	20,459	7,160	22,585	22,344	-
Depreciation	7,669	8,754	7,117	1,437	9,849	8,244	1,605
Other charges excluding (W.P.P.F.)	1,855	1,555	1,835	-	2,886	2,886	-
Workers Profit Participation Fund (W.P.P.F.)	-	841	-	841	1,018	-	1,018
	260,353	487,868	273,342	214,326	471,657	297,072	174,585
Operating Profit / (Loss)	(7,032)	13,314	(4,893)	18,206	14,734	(6,409)	21,144
Less: Borrowing cost	3,921	6,140	3,921	2,219	5,006	3,207	1,799
Profit / (Loss) before tax	(10,953)	7,174	(8,814)	15,987	9,728	(9,616)	19,344

SUI SOUTHERN GAS COMPANY LIMITED

ERR PETITION

FOR THE FINANCIAL YEAR 2022-23

Table # C-5

Category-wise Sales Revenue
and Gas Development Surcharge

CATEGORY	Estimated ENERGY BBTU	At Existing Selling Price Notification		At Prescribed Price Notification		Gas Development Surcharge
		Average Rate Rs per MMBTU	Commodity / Fixed Charge Rs in Million	Average Rate Rs per MMBTU	Commodity / Fixed Charge Rs in Million	
DOMESTIC						
Nil / Min. Charges	6,778	172.58	2,632	779.88	5,286	(2,654)
Bulk Consumption	2,711	780.00	2,115	779.88	2,114	0
<u>Standalone Consumption</u>						
Upto 50 m3	24,950	121.00	3,019	779.88	19,458	(16,439)
Upto 100 m3	37,601	300.00	11,280	779.88	29,324	(18,044)
Upto 200 m3	16,232	553.00	8,976	779.88	12,659	(3,683)
Upto 300 m3	3,027	738.00	2,234	779.88	2,361	(127)
Upto 400 m3	2,651	1,107.00	2,935	779.88	2,067	867
Above 400 m3	6,206	1,460.00	9,060	779.88	4,840	4,221
Total Domestic	100,156	421.85	42,251	779.88	78,110	(35,859)
COMMERCIAL						
Special Commercial (Roti Tandoor)	673	700.00	471	779.88	525	(54)
Other Commercial	8,269	1,283.00	10,609	779.88	6,449	4,160
Total Commercial	8,943	1,239.09	11,081	779.88	6,974	4,107
Fertilizer - Food	18,107	302.00	5,468	779.88	14,121	(8,653)
Fertilizer - Fuel	188	1,023.00	192	779.88	147	46
Power	17,530	857.00	15,023	779.88	13,671	1,352
Habibullah Coastal Power (Pvt.) Ltd.	5,366	857.00	4,598	779.88	4,184	414
NOORABAD POWER PLANT	5,366	857.00	4,598	779.88	4,184	414
Cement	122	1,277.00	156	779.88	95	61
Gen. Industry	26,032	1,054.00	27,437	779.88	20,301	7,136
TEXTILE PROCESS (Zero Rated)	30,660	819.00	25,110	779.88	23,911	1,199
CAPTIVE POWER - TEXTILE (Z)	48,290	852.00	41,143	779.88	37,660	3,483
Captive	21,247	1,087.00	23,096	779.88	16,570	6,525
CNG Region-I (Balochistan)	263	1,371.00	360	779.88	205	155
CNG Region-II (Sindh)	773	1,350.00	1,044	779.88	603	441
Total Industrial	173,941	852.16	148,225	779.88	135,653	12,572
Total	283,040	712.12	201,557	779.88	220,737	(19,180)
Decrease in Sales Value and GDS due to Customers in Litigation			3,631			3,631
TOTAL Net Sales & GDS	283,040	699.29	197,926	779.88	220,737	(22,811)

Note:-

✦ Average consumer price notification dated 23-10-2020 issued by Authority.

✦✦ Average prescribed price determined dated 17-08-2021 issued by Authority.

KASABHILL (LTD.)

POWER - KESC

POWER - BONGABRI

POWER - KESC

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SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF FIELD WISE INDIGENOUS GAS PURCHASES
FOR FRY 2022-23

S No.	GAS FIELD	MMCFD	MMCF	MMMBTU	Rs per MMBTU	Rupees Million
1	Sui	110.0	40,150	38,424	677.54	26,033
2	Kandhkot	-	-	-	-	-
3	Mazarani	-	-	-	-	-
4	Gambat Block - Wafiq/Shahdad-(X1)	100.0	36,500	35,223	477.61	16,822
5	Adam X-1 / Hala	13.0	4,745	5,015	509.43	2,555
6	Hadaif X-1 & Hadcel X-1	11.0	4,015	4,015	509.43	2,045
7	Badin Block	20.0	7,300	8,030	499.00	4,007
8	Khigro Block - Naimat Basu	175.0	63,875	60,873	1,153.17	70,197
9	Mirpurkhas Block - Kausar	46.0	16,790	17,478	1,138.07	19,892
10	Mitha	8.0	2,920	2,923	1,138.07	3,317
11	Kadanwari	20.0	7,300	7,307	1,573.14	11,495
12	Bhil	51.0	18,635	17,945	795.85	14,287
13	Miano	15.0	5,475	5,480	740.97	4,061
14	Sawan	12.0	4,380	4,447	740.97	3,297
15	Maheer / Mubarak Block	20.0	7,300	7,006	477.61	3,776
16	Latif	10.0	3,650	3,707	509.43	1,885
17	Zamzama	30.0	10,950	8,738	723.87	6,325
18	Kirther (Rehman)-EWT	38.1	13,899	12,065	1,059.50	12,782
19	Rizq - EWT	29.2	10,658	9,251	1,059.50	9,802
20	Zargoon	20.0	7,300	6,920	684.60	4,738
21	Suhal	10.0	3,650	3,847	633.54	2,437
22	Aqeeq-1	1.2	434	478	633.54	303
23	SNGM Towns-(Ghocki, Rostam, SherAli, Ubare, etc.)	4.0	1,460	1,460	780.00	1,139
24	Sari / Hund	1.0	365	329	1,283.02	421
25	Sinjore	15.0	5,475	5,601	477.61	2,675
26	Bohi	2.0	730	822	905.66	741
27	Paseki Deep & Kunhar Deep	90.0	32,850	33,638	510.89	17,186
28	Tay/Dars	50.0	18,250	18,688	477.61	8,926
29	Pakbro / Noorai Jagir/ Dam	1.2	434	516	441.81	228
30	Nur Bagla fields	1.0	365	392	441.81	173
31	Dachrapur / Jakhro / Gopang	1.0	365	434	441.81	192
32	Chutto-01	3.9	1,431	1,761	441.81	752
33	Bitrism	3.1	1,124	1,337	441.81	591
34	Suleman	21.0	7,665	7,565	441.81	3,387
35	Mangrio	5.6	2,029	2,029	441.81	897
36	Ayesha / Aminah / Ayesha (North)	20.0	7,300	6,928	499.00	3,457
37	Zainab	2.0	730	730	347.57	254
38	Gas Purchases	960.2	350,480	342,337	762.64	261,075
39	Excise duty				10.00	3,409
40	SSGCL Average input Cost of Gas	960.2	350,480	342,337	772.60	264,484

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF FIELD WISE INDIGENOUS
GAS PURCHASES
FOR FISCAL YEAR 2022-23

Table # C-8.1

S No.	GAS FIELD	Jul-22				Aug-22				Sep-22			
		MMCFD	MMCF	MMMBTU	Pegases Million	MMCFD	MMCF	MMMBTU	Repeats Million	MMCFD	MMCF	MMMBTU	Pegases Million
1	Sui	110	3,410	3,253	2,165	170	3,410	3,263.37	2,163	110	3,300	3,158	2,093
2	Kamikhkot												
3	Mazharai												
4	Garnool Block - Wafiq Shindadi (XU)	100	3,100	2,993	1,369	190	3,000	2,992	1,399	100	3,000	2,895	1,504
5	Adam X-1 / Fala	11	403	426	233	13	403	426	212	13	390	412	206
6	Harar X-1 & Saqul X-1	11	341	311	170	11	341	343	170	11	330	330	165
7	Basal Block	20	620	632	333	20	620	632	333	20	600	620	322
8	Kilipet Block - Nairaur Bnsal	173	5,425	5,170	5,803	175	5,425	5,170	5,857	175	5,250	5,003	5,449
9	Mirpurkhana Block - Kausar	46	1,426	1,484	1,654	46	1,426	1,484	1,654	46	1,340	1,427	1,611
10	Milim	8	248	248	277	8	248	248	277	8	240	240	268
11	Kachrogori	20	620	621	936	20	620	621	936	20	600	600	925
12	Shit & Bhadra	51	1,581	1,524	1,118	51	1,581	1,524	1,118	51	1,530	1,473	1,082
13	Adem	15	495	465	518	15	495	465	518	15	430	430	506
14	Savun	12	372	377	268	12	372	377	268	12	360	363	249
15	Maher	20	620	671	318	20	620	671	314	20	600	650	304
16	Latif	30	330	314	257	30	330	314	257	30	300	304	152
17	Zamzama	30	930	747	495	30	930	747	495	30	900	718	479
18	Kinher (Rahman)-BWT	34	1,180	1,025	1,072	34	1,180	1,025	1,072	34	1,142	992	990
19	Ring - BWT	29	905	736	791	29	905	736	791	29	876	769	756
20	Zargoun	20	620	338	305	20	620	344	300	20	600	569	178
21	Sujal	10	310	327	195	10	310	327	195	10	300	316	195
22	Adery-1	1	37	41	25	1	37	41	25	1	36	39	24
23	SNGPC, Towns-(Ghotki, Rustum, Sher Ali)	4	124	124	97	4	124	124	97	4	120	120	94
24	Sar / Hundi	1	31	28	33	1	31	28	33	1	30	27	32
25	Sejjanai	15	465	479	222	15	465	476	222	15	450	460	215
26	Boji	2	62	73	58	2	62	70	58	2	60	65	36
27	Pasaki Deep & Kuncur Deep	90	2,780	2,857	1,412	90	2,780	2,857	1,412	90	2,700	2,765	1,361
28	Chaybars	50	1,530	1,587	942	50	1,530	1,587	942	50	1,500	1,536	718
29	Pakhar / Noor / Jagir Darg	1	37	44	19	1	37	44	19	1	36	42	18
30	Nur Bagla fields	1	33	43	51	1	33	43	51	1	30	32	14
31	Dhobagpur / Jakdara / Gungung	1	31	37	26	1	31	37	16	1	30	36	15
32	Charto-01	4	123	141	61	4	122	144	63	4	118	140	60
33	Baleam	3	95	114	49	3	95	114	49	3	92	110	48
34	Suleman	21	651	632	282	21	651	632	282	21	630	630	273
35	Mangro	6	172	172	74	6	172	172	73	6	167	167	72
36	Ayeshu / Amjash / Ayeshu (North)	20	620	588	287	20	620	588	287	20	600	569	278
37	Zamab	2	62	62	30	2	62	62	31	2	60	60	29
38	Gas Purchases	960	29,767	29,075	21,499	960	29,767	29,075	21,490	960	28,807	28,137	21,406
39	Basic duty				230				290				280
40	SNGPC, Average input cost of Gas	960	29,767	29,075	21,789	960	29,767	29,075	21,789	960	28,807	28,137	21,086

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF FIELD WISE INDIGENOUS
GAS PURCHASES
FOR FRY 2022-23

S No	GAS FIELD	Oct-22				Nov-22				Dec-22			
		MMCF/D	MMCF	MMMBTU	Repsas Million	MMCF/D	MMCF	MMMBTU	Repsas Million	MMCF/D	MMCF	MMMBTU	Repsas Million
1	Sui	110	3,410	3,263	2,163	110	3,300	3,158	2,095	110	3,410	3,263	2,165
2	Kardikot	-	-	-	-	-	-	-	-	-	-	-	-
3	Mazari	-	-	-	-	-	-	-	-	-	-	-	-
4	Gumbat Block - Wahy/Shahdad-XXI	100	3,130	2,942	1,399	100	3,000	2,895	1,354	100	3,100	2,992	1,399
5	Adani X-1 / Hala	14	403	426	212	13	390	412	206	13	403	426	212
6	Hadh X-1 & Rudeel X-1	21	341	341	170	11	330	310	165	11	341	341	170
7	Budin Block	20	620	682	333	20	600	660	322	20	620	682	333
8	Xhipro Block - National Basal	175	5,421	5,170	5,837	175	5,250	5,003	5,649	175	5,425	5,170	5,837
9	Mirpurkh Block - Kaurar	46	1,426	1,484	1,654	46	1,380	1,437	1,601	46	1,426	1,484	1,654
10	Mahs	8	218	248	277	8	240	240	268	8	248	248	277
11	Kadranpur	20	620	621	936	20	600	601	925	20	620	621	936
12	Dhar & Bhadrin	51	1,561	1,524	1,118	51	1,530	1,475	1,082	51	1,581	1,524	1,118
13	Miano	15	465	463	318	15	450	450	308	15	465	455	318
14	Sawan	12	372	377	258	12	340	363	249	12	372	377	258
15	Maler	20	620	671	314	20	600	630	304	20	620	671	314
16	Lari	10	310	314	177	10	300	304	152	10	310	314	157
17	Zonaura	30	940	742	495	30	900	711	479	30	930	742	495
18	KarSer (Rudran)-EWI	45	1,180	1,025	1,032	45	1,142	992	999	45	1,180	1,025	1,032
19	Riaz - EWT	29	905	785	791	29	876	760	766	29	905	786	791
20	Zargoon	20	620	588	190	20	600	569	178	20	620	588	190
21	Sujal	10	310	327	199	10	300	316	192	10	310	327	199
22	Aqer-i	1	37	41	25	1	36	39	24	1	37	41	25
23	SKGC - Towan/Chotki, Rustam, SherAli	4	224	124	97	4	120	120	91	4	134	124	92
24	Sati / Hindi	1	31	28	33	1	30	27	12	1	31	28	12
25	Sinhor	15	465	456	222	15	450	408	215	15	465	456	222
26	Babi	2	62	70	38	2	60	68	36	2	62	70	38
27	Pasak Deep & Kumar Deep	90	2,700	2,357	1,417	90	2,600	2,263	1,367	90	2,700	2,357	1,412
28	Tay-Dars	50	1,550	1,357	742	50	1,500	1,326	718	50	1,550	1,357	742
29	Pakiro / Noonsi Jagir / Durn	3	37	44	19	1	36	42	18	1	37	44	19
30	Nur Angla Belas	3	91	55	14	1	50	32	14	1	33	33	14
31	Duchrapur / Jakkro / Gopang	3	31	37	16	1	30	36	15	1	31	37	16
32	Chitro-01	4	122	184	63	4	118	240	60	4	122	184	63
33	Uthir	1	63	114	59	1	62	110	48	1	63	114	48
34	Soleman	21	657	671	282	21	636	670	273	21	651	651	282
35	Margro	6	172	172	75	6	167	167	72	6	172	172	75
36	Ayeshia / Antimen / Ayeshia (North)	20	620	588	287	20	600	560	278	20	620	588	287
37	Zairub	2	62	62	36	2	60	60	29	2	62	62	36
38	Gas Purchases	950	29,767	29,075	21,499	950	28,807	28,137	20,490	950	29,767	29,075	21,499
39	Excise duty	-	-	-	-	-	-	-	-	-	-	-	-
40	SSGCL Average input Cost of Gas	950	29,767	29,075	21,789	950	28,807	28,137	21,065	950	29,767	29,075	21,789

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF FIELD WISE INDIGENOUS
GAS PURCHASES
FOR PERIOD 2022-23

Table # C-8.1

S.No.	GAS FIELD	Jan-23				Feb-23				Mar-23			
		MMCFD	MMCF	MMMBTU	Ruppes Million	MMCFD	MMCF	MMMBTU	Ruppes Million	MMCFD	MMCF	MMMBTU	Ruppes Million
1	Sui	116	3,410	3,263	2,254	110	3,080	2,948	2,039	116	3,410	3,253	2,258
2	Kumbhkor	-	-	-	-	-	-	-	-	-	-	-	-
3	Mazarani	-	-	-	-	-	-	-	-	-	-	-	-
4	Ganbat Block - Wafiq/Shahdadi-XC1	109	3,100	2,992	1,459	100	2,800	2,702	1,218	100	3,100	2,992	1,459
5	Adani X-1 / Hala	15	463	426	222	15	364	365	200	15	403	426	222
6	Indaf X-1 & Rudzel X-1	11	341	341	177	11	308	308	160	11	341	341	177
7	Badin Block	20	620	682	348	20	560	616	312	20	620	682	348
8	Kaipco Block - Naimad Basal	175	5,423	5,170	6,049	175	4,900	4,570	5,439	175	5,423	5,170	6,049
9	Mirpurkhas Block - Kausar	46	1,426	1,484	1,775	46	1,288	1,341	1,556	46	1,426	1,484	1,775
10	Maha	8	258	248	269	8	224	228	261	8	248	248	289
11	Kadawar	20	620	621	997	20	500	561	501	20	526	621	997
12	Abit & Bleda	51	1,581	1,524	1,309	51	1,428	1,377	1,182	51	1,581	1,524	1,309
13	Kicene	15	465	465	372	15	420	420	336	15	465	465	372
14	Sawan	12	372	372	302	12	336	341	272	12	372	372	302
15	Maher	20	620	671	628	20	560	606	296	20	620	671	328
16	Fatih	10	310	314	162	10	280	284	148	10	310	314	162
17	Zamzama	30	930	942	581	30	840	876	524	30	930	942	581
18	Kichei / Rohman-HWZ	38	1,180	1,025	1,140	38	1,066	921	1,030	38	1,140	1,025	1,140
19	Kizil - RWJ	29	903	786	574	29	818	716	499	29	985	786	574
20	Zargoon	20	620	588	415	20	560	531	375	20	620	588	415
21	Stajal	10	310	327	215	10	280	295	194	10	310	327	215
22	Aqeeq-1	1	37	43	27	1	33	37	24	1	37	43	27
23	SNGLZ, Towns-(Chhotki, Rustam, SherAli)	4	124	124	97	4	112	112	87	4	124	124	97
24	Sari / Fandi	1	31	28	39	1	28	25	35	1	31	28	35
25	Sinjoto	15	465	476	232	15	430	430	210	15	465	476	232
26	Dobi	2	62	70	69	2	56	63	62	2	62	70	69
27	Pasaki Deep & Kunmr Deep	90	2,790	2,877	1,508	90	2,520	2,580	1,362	90	2,790	2,877	1,508
28	Tay/Chas	30	1,550	1,587	774	30	1,400	1,434	699	30	1,550	1,587	774
29	Paklen / Nomai Jagir/ Dait	1	37	44	29	1	32	40	18	1	37	44	29
30	Nur Bagla lile lile	1	31	33	15	1	28	30	14	1	31	33	15
31	Dachi Jagir / Iskhra / Garpang	1	31	37	17	1	28	32	15	1	31	37	17
32	Chuto-Q1	4	127	144	65	4	110	131	59	4	127	144	65
33	Bizim	3	95	134	51	3	86	103	45	3	95	134	51
34	Suleman	21	651	657	294	21	588	588	265	21	651	651	294
35	Mangro	6	172	172	78	6	156	156	70	6	172	172	78
36	Ayesha / Azunub / Ayesha (North)	30	620	388	306	20	560	331	271	26	620	588	306
37	Zainab	2	63	62	32	2	56	56	29	2	62	62	32
38	Gas Purchases	960	29,767	29,975	22,878	960	28,886	29,261	20,664	960	29,767	29,975	22,878
39	Excise duty	-	-	-	290	-	-	-	261	-	-	-	290
40	SSGCL, Average input Cost of Gas	960	29,767	29,975	23,167	960	28,886	29,261	20,925	960	29,767	29,975	23,167

SUN SOUTHERN GAS COMPANY LIMITED
STATEMENT OF FIELD WISE INDIGENOUS
GAS PURCHASES
FOR FRY FY 2022-23

S No.	GAS FIELD	Apr-23				May-23				Jun-23			
		NMCPD	MDACE	EXPMBTU	Rupers Million	NMCPD	NMCPBTU	Rupers Million	NMCPD	NMCPBTU	Rupers Million	NMCPD	Rupers Million
1	Spi	110	3,300	3,158	2,184	110	3,410	2,258	110	3,300	2,184	110	2,184
2	Kandhkol	-	-	-	-	-	-	-	-	-	-	-	-
3	Muzerur	-	-	-	-	-	-	-	-	-	-	-	-
4	Gachal Block - Wazir/Shahdara (N)	300	3,000	2,895	1,412	100	3,100	2,092	100	3,000	2,895	100	1,412
5	Adam X-1 / Hala	15	300	412	214	15	403	222	15	390	214	15	214
6	Hadar X-1 & Hadeel X-1	11	330	330	172	11	341	177	11	330	172	11	172
7	Hadeel Block	20	600	600	337	20	620	348	20	600	337	20	337
8	Khigro Block - Naimat Begi	175	5,250	5,003	5,892	175	5,435	6,089	175	5,250	5,892	175	5,892
9	Majra Block - Khasar	46	1,380	1,327	1,570	46	1,426	1,484	46	1,380	1,570	46	1,570
10	Mitha	8	240	240	279	8	248	289	8	240	279	8	279
11	Kalawazi	20	600	600	663	20	620	621	20	600	663	20	663
12	Bne & Bhadra	51	1,530	1,476	1,267	51	1,581	1,224	51	1,520	1,267	51	1,267
13	Mino	15	450	450	360	15	465	455	15	450	360	15	360
14	Savari	12	360	360	292	12	372	377	12	360	292	12	292
15	Kaluz	20	600	600	317	20	620	328	20	600	317	20	317
16	Lail	10	300	300	158	10	310	164	10	300	158	10	158
17	Zanzama	30	900	718	567	30	920	742	30	900	567	30	567
18	Kirbir (Reimar) (N)	38	1,142	992	1,103	38	1,180	1,023	38	1,142	1,103	38	1,103
19	Kirbir - BW1	29	876	760	846	29	905	786	29	876	846	29	846
20	Zargona	20	600	569	401	20	620	538	20	600	401	20	401
21	Sajal	30	900	376	203	30	310	327	30	300	203	30	203
22	Agona	1	30	39	26	1	37	41	1	36	26	1	26
23	SNGP Tiwana (Ghailki, Kustam, Sherail)	4	120	120	94	4	124	124	4	120	94	4	94
24	Sari / Jind	1	30	37	18	1	31	28	1	30	18	1	18
25	Sajal	15	450	463	225	15	465	232	15	450	225	15	225
26	Pinsaki Deep & Kurnas Deep	2	60	68	56	2	62	70	2	60	56	2	56
27	Tasy/Dares	90	2,700	2,765	1,459	90	2,950	2,857	90	2,700	1,459	90	1,459
28	Paklari / Nurei Jagir / Dares	50	1,500	1,536	749	50	1,550	1,587	50	1,500	749	50	749
29	Nag Bagia Sela	1	30	42	19	1	31	44	1	30	19	1	19
30	Dachapur / Jaklari / Aoganga	1	30	36	16	1	31	37	1	30	16	1	16
31	Chakori-01	4	118	540	63	4	122	142	4	118	63	4	63
32	Bitris	3	92	110	50	3	95	113	3	92	50	3	50
33	Susman	21	630	630	254	21	651	651	21	630	254	21	254
34	Mangro	4	167	157	75	4	172	177	4	167	75	4	75
35	Ayeshi / Amsal / Ayeshi (North)	20	600	589	291	20	620	588	20	600	291	20	291
36	Zairah	2	60	60	31	2	62	37	2	60	31	2	31
37	Gas Purchases	960	28,907	28,137	22,140	960	29,767	22,075	960	28,807	22,140	960	22,140
38	Excise duty	-	-	-	280	-	-	280	-	-	280	-	280
39	SSGCL Average input Cost of Gas	960	28,907	28,137	22,420	960	29,767	22,357	960	28,807	22,420	960	22,420

SRI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF FUEL WISE INDIGENOUS
GAS PURCHASES
FOR FISCAL YEAR 2022-23

Table A C-8.

S.No	GAS FIELD	Jan. - Dec. 22				Jan. - Jan. 23				SSOCL TOTAL			
		MMCFD	MMCF	MMMBTU	Ruppes Million	MMCF	MMMBTU	Ruppes Million	MMCFD	MMCF	MMMBTU	Ruppes Million	Ruppes Million
1	Sun	110	20,240	19,170	12,856	110	19,930	19,054	110.00	40,150	34,474	25,023.193	
2	Xandizari	-	-	-	-	-	-	-	-	-	-	-	-
3	Adrauni	-	-	-	-	-	-	-	-	-	-	-	-
4	Gambhar Block - Wadiq/Shahdadi(X)	100	18,400	17,556	8,205	100	18,100	17,467	100.00	36,500	35,223	16,822.485	
5	Adani X-1 / Halo	13	2,392	2,528	1,241	13	2,553	2,487	13.00	4,545	5,015	2,555.021	
6	Hadar X-1 & Badel X-1	11	2,024	2,024	1,016	11	1,991	1,991	11.00	4,615	4,925	2,045.356	
7	Budai Block	30	3,680	4,048	1,974	30	3,620	3,987	30.00	7,200	8,030	4,036.948	
8	Kipiro Block - Naimar Basai	75	32,200	30,687	34,645	75	31,675	30,180	75.00	65,875	60,874	76,197.917	
9	Mupukhas Block - Knapar	46	8,464	8,811	9,833	46	8,326	8,667	46.00	16,790	17,478	19,591.550	
10	Mitra	8	1,472	1,473	1,642	8	1,448	1,449	8.00	2,920	2,923	3,376.476	
11	Kashirawa	20	3,680	3,680	5,674	20	3,620	3,624	20.00	7,300	7,307	11,495.425	
12	Dhar & Boudra	51	9,384	9,066	6,538	51	9,231	8,899	51.00	18,614	17,945	14,241.450	
13	Mam	15	3,760	2,763	1,888	15	2,715	2,718	15.00	5,475	5,480	4,060.843	
14	Nawan	12	2,508	2,219	1,530	12	2,172	2,202	12.00	4,360	4,441	3,296.865	
15	Maler	20	1,680	3,585	4,864	20	3,620	5,020	20.00	7,300	7,306	3,775.907	
16	Ladi	10	1,840	1,866	951	10	1,810	1,835	10.00	3,650	3,701	1,885.446	
17	Zarozana	30	3,520	4,805	2,956	30	5,430	4,331	30.00	10,950	8,718	4,375.235	
18	Kirber (Refineries) - W-1	18	7,007	6,082	6,126	18	6,892	5,982	18.00	13,809	12,065	12,782.975	
19	Ring - EWT	29	3,473	4,664	4,697	29	5,285	4,588	29.00	10,625	9,251	9,801.611	
20	Zargun	20	3,680	5,489	2,316	20	3,520	3,473	20.00	7,300	6,920	4,777.694	
21	Sajid	70	1,840	1,930	1,781	70	1,810	1,908	70.00	3,650	3,847	2,452.287	
22	Aqesal	7	219	241	147	7	215	237	7.00	434	478	307.695	
23	SNGL Towers (Charki, Rustam, Shorali)	4	736	736	574	4	724	724	4.00	1,460	1,460	1,236.800	
24	Nur / Randi	1	184	165	195	1	181	165	1.00	365	329	421.471	
25	Sanjari	15	2,760	2,823	1,320	15	2,715	2,777	15.00	5,475	5,601	2,675.037	
26	Bebi	2	358	414	344	2	362	408	2.00	730	822	744.434	
27	Prasadi Deep & Kurnur Deep	90	16,560	16,560	5,383	90	16,280	16,681	90.00	32,830	31,538	17,185.676	
28	Gas Durs	44	9,200	9,421	4,405	44	9,650	9,267	44.00	28,250	28,588	8,925.915	
29	Pakhar / Naurai / Jagir / Dactu	1	219	260	113	1	215	254	1.00	431	516	228.171	
30	Nar Bagla fields	1	184	165	85	1	181	164	1.00	365	392	173.395	
31	Dudhigupta / Zakhari / Gopung	1	184	219	95	1	182	215	1.00	365	434	191.740	
32	Chandroli	4	721	858	371	4	710	844	4.00	1,431	1,701	751.622	
33	Bubari	3	567	694	291	3	557	663	3.00	1,324	1,317	590.565	
34	Salerma	2	1,864	2,864	1,632	2	1,801	1,811	2.00	3,665	3,665	3,386.501	
35	Belangra	6	1,023	1,023	443	6	1,006	1,006	6.00	2,029	2,029	846.616	
36	Ayacha / Amiran / Ayeehn (Noorai)	26	2,580	3,492	1,702	26	3,520	3,435	26.00	7,300	6,928	3,456.903	
37	Zanab	2	368	368	176	2	462	362	2.00	740	730	254.725	
38	Gas Purchases	980	176,880	172,572	227,606	980	173,800	169,759	980.22	390,480	342,321	261,075.177	
39	Excise duty				1,718			1,690				3,408.789	
40	SSOCL Average input Cost of Gas	980	176,880	172,572	129,328	980	173,800	169,759	980.22	350,480	342,331	254,481.886	

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

MMCF

CATEGORY		ERR Petition FY 2021-22	ERR Petition FY 2022-23 Indigenous
CONSOLIDATED			
1-Transmission System			
Gas handled in transmission system		457,519	426,060
Gas used in Transmission System		(2,759)	(1,041)
Gas available in transmission system		454,780	425,018
Gas Consumed Internally - unmetered		(25)	(14)
Gas available (net) in transmission system "A"		454,755	424,874
Gas passed to Distribution System through SMS (B)		454,527	424,661
Loss/(Gain) in Transmission System: (A-B)		228	213
Percentage (A-B)/A x 100		0.05%	0.05%
2- Distribution System			
Gas received in Distribution Network		454,527	424,661
Damage by third party - unmetered		(364)	(267)
Gas available for sale (net) "C"		454,162	424,394
Gas Sales		325,289	288,816
Purchases - RLNG held stock		73,049	66,316
Deemed Sales - (recovered from RLNG customer through pricing)		11,214	11,627
Add: Gas Shrinkage		40	
"D"		409,592	366,780
Loss in Distribution System E = C-D		44,571	57,614
Percentage (E/Cx100)		9.81%	13.58%
3- Total UFG		44,799	57,827
As %age of gas available for sale A=(1C+2E) 2A/(1A+2B)x100		9.86%	13.63%
WORKING FOR UFG AS PER OGRA FORMAT			
GAS AVAILABLE (NET) IN TRANSMISSION SYSTEM		454,755	424,874
Damage by third party - unmetered		(364)	(267)
Gas available for sale		454,391	424,607
GAS SALES		409,592	366,780
UFG Volumes		44,799	57,827
UFG %		9.86	13.62

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D

SUI SOUTHERN GAS COMPANY LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FY 2022-23
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SUI SOUTHERN GAS COMPANY LIMITED

10-12-21

STATUS OF MAJOR PROJECTS FY 2022-23 & 2021-22 (ERR)

SSGC embarks upon execution of transmission projects with a core objective to increase transmission network capacity for receiving additional gas volumes available from new as well as developing gas fields in order to meet country energy demands.

Currently, SSGC transmission system extends in the Provinces of Baluchistan and Sindh comprising over 4,145 KM of high pressure pipeline. By commissioning of planned transmission pipeline projects, gas transmission network is expected to increase by 147 Km in FY 2022-23.

SSGC also envisages developing RLNG infrastructure for receiving additional RLNG volume to meet the continuously increasing demand of natural gas.

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

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

A.1 NEW / ON-GOING PROJECTS ACTIVITIES

A.1.1 FUTURE EXTENSION AT CTS BIN QASIM

Additional land and civil infrastructure has been proposed adjacent to CTS Bin Qasim required to receive additional RLNG volume from future RLNG terminals. Rs 426 million has been proposed for the said development and expected to be capitalized in FY 2022-23.

SUI SOUTHERN GAS COMPANY LIMITED**STATUS OF MAJOR PROJECTS FY 2022-23 & 2021-22 (ERR)****A.1.2 30" DIA. X 17 KM PIPELINE FROM CTS BIN QASIM TO MVA PAKLAND**

The Honourable Minister Petroleum division directed SSGC to reinitiate working on 30" dia. x 17 Km pipeline. The subject pipeline has flow capacity of 600 MMCFD RLNG.

Due to urgency, the material earlier procured against 30" x 125 Km Pipeline from Sindh University to MVA-Pakland has been utilized for commissioning of the subject pipeline project.

30" x 17 Km pipeline has been commissioned in December, 2020 and several leftover work has been completed and Rs. 1209 million has been capitalized against subject project till November, 2021.

Rs. 413 million has been proposed against left over job till June, 2022; whereas remaining leftover i.e. orifice meter replacement with ultrasonic meter with in the same skid, flow control arrangement, civil work and land acquisition will be completed against estimated amount of Rs. 433 million in FY 2022-23.

A.1.3 UP-GRADATION OF SMS THATTA

Existing SMS set-up at Thatta is 30 years old, running on maximum capacity and will not be able to fulfil future load demands as Equipment installed like valves, regulators, safety valves and pipe/ pipe fittings have deteriorated with the passage of time. Moreover, this SMS does not have Scrubbers which are required to be installed to provide quality gas (i.e. free of dust and debris) to the customers. Therefore, up-gradation of SMS at Thatta is needed.

Procurement of material for subject project is under process and near to completion. The required up-gradation job has been planned to be completed and commissioned in FY 2021-22 with an estimated amount of Rs. 148 million.

SUI SOUTHERN GAS COMPANY LIMITED**STATUS OF MAJOR PROJECTS FY 2022-23 & 2021-22 (ERR)****A.1.4 30" DIAMETER x 125 KMS PROPOSED PIPELINE FROM SINDH UNIVERSITY TO PAKLAND**

In the FY 2015-16, E&P Companies namely OGDCL, DEPL & PPL were optimistic to enhance gas volumes in their respective gas fields situated in SSGC's ILBP region as depicted in Gas Supply Sheet. At that time the ILBP transmission system had reached its saturation level. Therefore, in order to mitigate system capacity bottleneck, 30" dia. x 125 Km transmission pipeline project from SMS Sindh University to SMS Pakland. The project was approved by SSGC BOD on 4th March, 2017 and OGRA on 7th November, 2017 respectively.

The current gas projections received from E&P Companies shows that existing gas fields would significantly be declined from FY 2024-25 to onwards on 30" dia. X 125 Km pipeline seems to be utilized for accommodating additional/ available gas volumes for only 02 years.

However, the current scenario is that SSGC's 16" Dia pipeline was constructed in 1955 with design capacity of 100 MMCFD. The pipeline has reached the end of its design life and therefore needs to be replaced. Also, 20" Dia. Kadanwari pipeline was constructed in 1994 with design capacity of 180 MMCFD. The pipeline will complete its design life within 10-12 years. Therefore, in the absence of above pipeline capacity, 30" dia pipeline will also cater the capacity of both pipelines in the future.

Furthermore, due to pipeline capacity constraints in ILBP system with regards to transmission of gas from interior Sindh to Karachi, SSGC has to swap indigenous gas to SNGPL in lieu of RLNG. Construction of 30" x 125 Km pipeline will enhance / strengthen our pipeline capacity 247 MMscfd from Hyderabad to Karachi and will be able to transport all ILBP gases to Karachi.

In the light of worsening trends of existing ILBP gas pipelines, the approved 30" dia. X 125 Km pipeline is required in order to ensure

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STATUS OF MAJOR PROJECTS FY 2022-23 & 2021-22 (ERR)

availability of pipeline capacity in gas transmission network, despite the fact that the indigenous gas in ILBP system are on declining trend. Moreover, in case of depletion of ILBP gases, the ILBP gases and/or RLNG can be transported to interior Sindh in order to meet the gas demand of end users.

This proposed pipeline will increase the transmission system capacity up to 247 MMSCFD.

Based on the engineering survey report the actual total length of this proposed project would be around 116 Km. Some of earlier procured material against subject project has already been utilized for commissioning of 30" x 17 Km pipeline hence procurement of remaining project material and land acquisition activities are under process.

The subject pipeline project is expected to be commissioned in FY 2022-23 with an estimated capitalization amount of Rs. 8.630 million.

A.1.5 24" DIAMETER X 31 KM PIPELINE FROM SMS KATHORE TO SMS SURJANI

24" diameter x 31 Km Transmission pipeline from SMS Kathore to SMS Surjani has been proposed to improve operational efficiency as well as enhancing the gas distribution capacity of western region of Karachi namely Northern By-Pass Hub Town, Coastal Area of Hawks Bay, Kannup and other Industrial, Commercial and Domestic customers.

This pipeline will help in overcoming low pressure problems in SITE Industrial area and also enhance over-all system flow capacity up to 100 MMSCFD to cater future gas demand.

This pipeline will also be beneficial for transporting imported LNG gas to Karachi western region for meeting the future gas demand.

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The said project enhances the capacity of Transmission network which will further increase the efficiency of distribution of gas to 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.

This project is now planned to be commissioned in FY 2022-23 with estimated capitalization amount of Rs. 1.998 million.

A.1.6 CONSTRUCTION OF SUBMERGED CROSSINGS IN PLACE OF EXISTING OVERHEAD PIPELINE CROSSINGS DUE TO SECURITY / SAFETY:

Security plan agreed at Security Review Conference held in 2004 and keeping in view the 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.

Total 17 crossings were identified for submerged crossing. Status of each is provided as under.

Sr. No.	Crossing	Chain age	Method of Construction	Status
1	16" dia. KP West (ILBP)	Km 122+500	HDD/T.D.	Cancelled, due to proposed replacement of 16" ILBP
2	20" dia. Hameer Wah (IRBP)	Km 155+000	HDD	To be done in FY 2021-2022
3	20" dia. Rice Canal (IRBP)	Km 210+000	HDD	To be done in FY 2021-2022
4	18" dia. Sero Nala (QPL)	Km 48+000	T.D.*	Commissioned in 2019
5	18" dia. Patfeeder (QPL)	Km 81+000	HDD**	Commissioned in 2019
6	20" dia. Bakshoo Canal (IRBP)	Km 112+000	HDD	Commissioned in June-2021
7	20" dia. Warah Canal (IRBP)	Km 135+000	HDD	Commissioned in June-2021
8	18" dia. Warah Canal	Km 135+000	HDD	Commissioned in June-2021

SUI SOUTHERN GAS COMPANY LIMITED**STATUS OF MAJOR PROJECTS FY 2022-23 & 2021-22 (ERR)**

	(IRBP)			
9	20" dia. Ghar Canal (IRBP)	Km 160+000	T.D./HDD	Commissioned in June 2021
10	20" dia. Badah Canal (IRBP)	Km 190+000	T.D.	Commissioned in June 2021
11	20" dia. Damrah Canal (IRBP)	Km 198+000	T.D.	Commissioned in June 2021
12	20" dia. Sehar Wah (IRBP)	Km 204+000	T.D.	Commissioned in June 2021
13	18" dia. Patfeeder Canal (IRBP)	Km 20+000	HDD	Completed and Commissioned
14	20" dia. Naseer Canal (Kadanwari)	Km 227+000	HDD	Completed and Commissioned
15	16" dia. Naseer Canal (ILBP)	Km 227+000	HDD	Completed and Commissioned
16	20" dia. Rohri Canal (Kadanwari)	Km 233+000	HDD	Completed and Commissioned
17	16" dia. Rohri Canal (ILBP)	Km 233+000	HDD	Completed and Commissioned

* T.D.: Trench Ditch

** HDD: Horizontal Directional Drilling

Total 14 out of 17 submerged crossings have been successfully completed and commissioned with the capitalization amount of Rs. 224 million whereas remaining crossings at Sr.# 2 & 3 are planned to be commissioned in FY 2021-22 with an estimated amount of Rs. 149 million.

A.1.7 RE-ROUTING OF OLD PIPELINES FROM KOTRI / SUKKUR BARRAGE

The subject project has been shelved in light of the decision of Board of Finance & Procurement Committee dated 24th February, 2021.

A.1.8 12" DIAMETER X 46 KM LOOP LINE FROM REHMAN GAS FIELD TO MVA NAING:

The subject pipeline was commissioned on January, 2020 whereas leftover civil work has been completed and closed; Rs. 1,385 million has been capitalized against subject project.

SUI SOUTHERN GAS COMPANY LIMITED**STATUS OF MAJOR PROJECTS FY 2022-23 & 2021-22 (ERR)****A.1.9 8" DIAMETER x 28 KM PIPELINE FROM AYESHA GAS FIELD**

The subject pipeline was commissioned on February, 2020 with capitalization amount of Rs. 652 million; whereas left over civil job would be completed till June, 2022 with an estimated capitalization amount of Rs. 5 million. Further, pending land payment would be completed in FY 2022-23 with an estimated amount of Rs. 19 million.

A.1.10 CHECK METERING FACILITY AT DARU

In compliance of Director Audit Committee decision to carry out reconciliation of gas at POD, Check Metering facility is proposed at POD Daru. Currently 7 to 8 MMSCFD gas volume being received in SSGC System from Pakhra.

The installation of check metering job has been completed in February, 2020 with capitalization amount of Rs. 52 million furthermore leftover civil jobs would be completed in FY 2022-23 with an estimated amount of Rs. 17 million.

A.1.11 CHECK METERING FACILITY AT SHAHDADPUR FOR GAMBAT SOUTH FIELD GAS MEASUREMENT

Check Metering Facility is required to be installed at RS-3 (Shahdadpur) for reconciliation of sale gas up to 150 MMSCFD supplied from PPL "Gambat South" and "Halla" Blocks field.

Installation of Check Metering Facility at Shahdadpur for Gambat South Field Gas Measurement has been completed since the installation has been commissioned in August, 2021 therefore its capitalization is expected in FY 2021-22 with an estimated amount of Rs. 177 million.

A.1.12 12" DIAMETER x 344 KM OPL REHABILITATION AND INTELLIGENT PIGGING

SUI SOUTHERN GAS COMPANY LIMITED**STATUS OF MAJOR PROJECTS FY 2022-23 & 2021-22 (ERR)**

Front End Engineering Design for rehabilitation job has been completed, procurement of required material is in process.

The rehabilitation job and intelligent pigging is expected to be completed till June, 2022 with an estimated amount of Rs. 378 Million.

A.1.13 NEW COMPRESSOR UNIT AT SIBI STATION:

Keeping in view the sustainability in gas supply and increasing demand of Quetta city and en-routed areas of Baluchistan, installation of 01 new compressor unit having 200 MMSCFD flow capacity was proposed.

However, SSGC's Board of Directors directed the management to conduct comparison analysis of refurbishing old machines and purchasing new one keeping in consideration the cost, design aspect, efficiency etc.

Subsequently, the TOR's for consultant were revised and published. Technical & commercial evaluation has been concluded and the successful bidder has been hired. Subsequent to the completion of feasibility analysis by the consultant, the next course of action shall be determined whether the old units would be revamped or we require additional compressor unit(s).

The project has been proposed to commissioned in FY 2022-23 with an estimated amount of Rs. 2.207 million (for installation of 1# new compressor) unit after the conclusion of consultant's feasibility report.

A.1.14 QUETTA PIPELINE CAPACITY ENHANCEMENT PROJECT:

24" dia. x 34 Km loopline from Shikarpur to Jacobabad: the project has been completed and commissioned in Dec, 2017.

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Leftover work installation of pig launcher & receiver traps with actuator remote control valves has been completed.

Whereas up-gradation of metering and regulation setup at shikarpur is under planning.

Rerouting of existing QPL 12" diameter x 9Km (KM56 to KM65) and 12" diameter x 14Km (KM84 to KM96); the proposed re-routing job have been completed and commissioned in January, 2018.

New compressor unit 01 No. at Shikarpur has been successfully completed and commissioned in November, 2020 with the capitalization amount of Rs. 1,200 million till November, 2021. Whereas remaining leftover work has been proposed in FY 2021-22 with an estimated capitalization amount of Rs. 420 million and FY 2022-23 with an estimated capitalization amount of Rs. 219 million.

A.2 RLNG PROJECTS

A.2.1 METERING FOR RLNG-1 AND ARRANGEMENT FOR TIE-IN (2ND TERMINAL) AT CTS BIN QASIM (CUSTODY TRANSFER STATION) INTEGRATION ARRANGEMENT AT PAKLAND

Metering arrangement for reconciliation of RLNG receiving from terminal 1 was installed and commissioned.

Whereas Orifice metering system has been relocated from MVA Pakland and installed with 2nd Terminal at CTS-Bin Qasim as check meter.

Furthermore, tender is under process for acquisition of design consultancy service regarding replacement of Orifice meter with Ultrasonic metering system installed with 2nd terminal.

The replacement of orifice metering system with ultrasonic metering system, installation of flow control system, installation of firefighting

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system, land payments and leftover civil work with 2nd Terminal is expected to be completed till December, 2022. Rs. 134 million has been proposed in FY 2021-22; whereas remaining Rs 626 million is expected to be capitalized in FY 2022-23.

A.2.2 42" DIA X 342 KM FROM PAKLAND TO NARA

42" dia x 342 Km RLNG-II pipeline has been completed and now this pipeline is in full operation, keeping in view the operational need in case of low flow and high pressure scenario and to maintain the recommended safe limit of compressor's suction pressure i.e. max. 850 psig at HQ-2 compressors station, pressure regulation station on main pipeline at HQ-2, Nawabshah upstream of compressor station has been proposed.

The estimated cost of pressure regulation station, including others leftover jobs is Rs. 147 million, the proposed job is expected to be completed in FY 2021-22; whereas Rs. 210 million in FY 2022-23 has been proposed for pending land payments.

A.2.3 NEW COMPRESSOR STATION AT NAWABSHAH

Six (06) Turbo Compressor units with flow capacity of 200 MMSCFD each have been installed at HQ-2 Nawabshah to meet SNGPI pressure requirement of 1,115 psig and volume 1.2 BCFD of RLNG.

All compressor units have been installed and commissioned as follows;

- i. Compressor unit # A & B in Jan, 2017.
- ii. Compressor unit # C in February, 2017 and
- iii. Compressor unit D, E & F in March, 2017.

The leftover civil work including acquisition of around 40 acre land have been proposed to be completed in FY 2021-22 with the required estimated capitalization amount of Rs. 128 million; whereas civil works for transit mess is expected to be completed in FY 2022-23 with an estimated amount of Rs. 74 million.

SUI SOUTHERN GAS COMPANY LIMITED**STATUS OF MAJOR PROJECTS FY 2022-23 & 2021-22 (ERR)****A.3 UNDER PLANNING PROJECTS****A.3.1 REPLACEMENT OF 16" DIA ILBP WITH 20" (180 KM) DIA. PIPELINE FROM HQ-2 TO HQ-1**

16" dia. Indus left bank pipeline (ILBP) segment from Sui to Nawabshah was commissioned in the year 1955, this line is currently fed from HQ-2 Nawabshah to supply of gas to Sukkur & Khairpur region that solely dependent on this 16" pipeline.

Intelligent pigging (IP) job was carried out for the assessment of this line in the year 2010, as per report internal pitting and erosion was noted at several locations in the pipeline which was repaired accordingly.

As pipeline useful design life is considered as 40 years, whereas this pipeline has completed 65 years since its commissioning, therefore its replacement is proposed from Nawabshah to Sukkur i.e around 180 Km with 20" dia. The estimated cost of replacement is Rs. 14,673 million.

Detailed route & topographic survey and initial design engineering has been proposed to initiate in FY 2021-22; whereas procurement of material and execution of subject pipeline with an estimated amount of Rs. 11,434 million will be initiated in FY 2022-23. Whereas subject project is expected to be commissioned in FY 2023-24.

A.3.2 ADDITIONAL 01 UNIT OF COMPRESSOR AT HQ-2 FOR RLNG

SSGC developed an infrastructure of 42" dia x 371 KM Gas Transmission Pipeline from Port Qasim to Sawan in order to transport 1200 MMscfd imported RLNG to SNGPL. As part of this infrastructure, 06 nos. Gas Turbo Compressor Units (200 MMscfd capacity each) were installed in 2016-17 at HQ-2, Nawabshah to deliver gas to Sawan at requisite pressure.

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Beside these 06 Gas Turbo Compressor units, 02 nos. old Gas Turbo Compressor units with capacity of 120 MMscfd each were relocated from HQ-Dadu and designated as stand-by units. The stand-by compressor units cover for 20% of total Station Design Flow. SSGC's Transmission Department is of the view that the stand-by philosophy should be revisited and provision be made for stand-by units to cover for 40% of Station Flow. In this regard, SSGC has hired professional consultancy services to review the current operational philosophy. Keeping in view the critical nature of the operation, installation of atleast one (01) additional Gas Turbo Compressor Units (200 MMscfd capacity) is envisaged in the FY 2022-23 with an estimated amount of Rs. 2,207 million.

A.3.3 REQUIRED MODIFICATION IN GAS REGULATION & METERING SYSTEM AT SHIKARPUR

The gas demand in the franchise area of Shikarpur increases drastically during winter season. Consequently, existing metering setup does not reconcile the gas volume in the winter season. Further, the supply of gas needs to be regulated in peak demand season at Shikarpur.

In view of foregoing, Check Metering & Regulation setup is required modification at Shikarpur. The required job has been proposed to be completed in FY 2022-23 with an estimated amount of Rs. 65 million.

A.3.4 8" X 162 KM PIPELINE PROJECT FOR JHAL MAGSI GAS FIELD

In order to receive indigenous gas from Jhal Magsi Gas Field into SSGC's transmission network, SSGC's Board of Directors had approved the Jhal Magsi Pipeline Project in February, 2017.

However earlier, keeping in consideration the prevailing law and order situation in the area, declining trend of gas projection profiles and

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STATUS OF MAJOR PROJECTS FY 2022-23 & 2021-22 (ERR)

equal share of volumes between SSGC and SNGPL, SSGC informed OGDCL that SSGC was not in a position to execute the project.

Recently, Petroleum Division, citing the gas shortage in the country, requested DG (Gas) to expedite the mediation process between OGDCL (Field Operator) and SSGCL for the execution of subject project in order to achieve the common policy objective of the Government. Therefore, SSGC apprised Petroleum Division that SSGC has revisited the technical and financial feasibility and the project is deemed feasible subject to the fulfilment of following conditions.

1. Safe gas compositions within OGRA benchmark
2. 100% allocation of Jhal Magsi Field to SSGC
3. Ministry's support in acquisition of Pipeline Right of Way

Considering the letter of comfort given by MoE, SSGC has communicated to DG (Gas) its concurrence with regards to the execution of subject pipeline project. However, it must be noted that the revised project cost is estimated as PKR 2,503.76 Million.

Detailed route & topographic survey and initial design engineering has been proposed with an estimated amount of Rs. 22 million. Authority is requested for the conceptual approval for initiating project in FY 2022-23.

A.3.5 UP-GRADATION OF SMS LARKANA

Existing SMS set-up at Larkana will not be able to fulfil future load demands as Equipment installed like valves, regulators, safety valves and pipe/ pipe fittings have deteriorated with the passage of time. Therefore, up-gradation of SMS at Larkana is needed.

The required up-gradation job has been planned to be completed and commissioned in FY 2022-23 with an estimated amount of Rs. 126 million.

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STATUS OF MAJOR PROJECTS FY 2022-23 & 2021-22 (ERR)

A.3.6 UP-GRADATION OF SMS NAWABSHAH

Existing SMS set-up at Nawabshah will not be able to fulfil future load demands as Equipment installed like valves, regulators, safety valves and pipe/ pipe fittings have deteriorated with the passage of time. Therefore, up-gradation of SMS at Nawabshah is needed.

The required up-gradation job has been planned to be completed and commissioned in FY 2022-23 with an estimated amount of Rs. 126 million.

A.3.7 INSTALLATION OF NITROGEN GENERATION UNITS

In order to meet the increasing natural gas demand with limited sources of natural gas in the country, SSGC is exploring the possibility of injecting nitrogen in the high GCV RLNG-indigenous commingled gas, thereby, increasing sale gas volume while keeping it within OGRA allowable gas quality benchmark. A consultant was hired to ascertain technical feasibility of the job. The consultant's report has declared nitrogen injection technically feasible which is being forwarded to OGRA for its consent. There would be requirement of installation of nitrogen generation units at (06) six different SMSs subject to OGRA's approval.

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STATUS OF MAJOR PROJECTS FY 2022-23 & 2021-22 (ERR)

B **DISTRIBUTION PROJECTS (Brief, Need Analysis & Cost Benefit Analysis):**

B.1 **NEW / ON-GOING PROJECTS ACTIVITIES**

B.1.1 **16" DIAMETER X 5 KM PIPELINE FROM SURJANI STEP-DOWN TO MADINAT-UL-HIKMAT**

At present 16" dia. Valika Link main is being fed through 24" dia. Shershah main (interconnected near Madinat-ul-Hikmat), the pipeline is being proposed to off-load Valika Link main from Shershah main as to improve gas supply to SITE. The supply pressures at SITE industrial area & Orangi town would be improved.

It is pertinent to mention that this proposal would be fruitful after laying / commissioning of 24" dia. x 31 Km Transmission pipeline (from SMS-ACPL to Surjani) & SMS, which is under re-approval at P&D-Transmission. The proposal would also be helpful for Isolation of SITE Industrial area.

This project will help-out to enhance the carrying capacity of the system and maintain smooth supply of gas to the entire connected areas. The estimated cost of project is Rs. 270 Million.

B.1.2 **16" DIA. X 6.2 KM PIPELINE INTERLINK OF PASMIC MAIN & LANDHI MAIN LINK**

At present industrial area along National Highway is being fed through SMS-FJFC which is being operated at its peak. Whereas SMS-Pak Steel located in the vicinity of the said area is isolated and being operated at its minimum capacity, as Pakistan Steel Mill is inoperative since long. The project is required to shift the load of about 18 TBSs from SMS-FJFC to SMS-Pak Steel by laying 16" dia. x 7 Km pipeline from Steel Mill

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entrance at National Highway to FAST University, Shab Latif Town, as shown in the attached drawing.

The foremost benefit of the project is to balance the load on each SMS.

This project will help-out to enhance the capacity of the system and maintain smooth supply of gas to the entire connected areas. The estimated cost of project is Rs. 320 Million.

It may be noted that after revival of operations of Pakistan Steel Mill, an additional augmentation will be required from SMS-Pak Steel to the proposed tapping Point.

B.1.3 REINFORCEMENT WORK AT QUETTA, MID CITY AREA 16" DIA LOOP LINE

During severe frigid weather, the mid-city areas are affected by low pressure as the existing gas mains have become undersized due to population explosion. AGM (D)-Balochistan proposed for the enhancement of mains to the downtown of Quetta City, which is thickly populated area and nearly 45,000 customers are facilitated with gas supply at 35-40 PSIG as TBS are located nearly 7 km away.

Planning & Development Department designed laying of 16" dia mains high pressure line from TBS Taj Complex - Gawalmandi Chowk - Meezan Chowk - Cafe China - TBS Ufone - CM House - Civil Hospital - Science College - Imdad Chowk - Barech Market, we, thus, will be able to provide the gas facility to the customers at 12-15 PSIG and ultimately will minimize UFG on one hand, and on the other hand it will facilitate with uninterrupted gas supply to the customers without any complaints. Enroute to this line four new TBS have been designed in mid-city areas namely; Children Hospital, Science College, Lady Defferin Hospital, and Gawalmandi Police Station. Four (04) PRS are required and designed to connect elite customers such as Governor House, CM House, Civil Secretariat, High Court, Civil Hospital etc.

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UNDER PLANNING PROJECTS

B.1.4 8"Ø x 21.000 KM SUPPLY MAIN ZIARAT

This project is required to reinforce existing 8" dia Supply Main Ziarat, the capacity of which has been exhausted due to extension of new towns & villages on the supply main. Existing customer base on this supply main is 6,000 domestic. The supply main (from Kuchlak to Ziarat) has become undersize and we cannot run the system even at higher pressure in extreme frigid weather of Ziarat Valley.

SSGCL designed 16" dia 8.784 KM Gas Supply Pipeline for Bostan Special Economic Zone, approved by DDWP in February 2021 funded by Ministry of Energy (Petroleum Division).

The Major Distribution project 8" dia X 21.000 KM for Ziarat is designed from the above approved 16" dia project up to Ziarat Cross. The existing Supply Main from Kuchlak to Ziarat will be isolated at Ziarat Cross. The onward section from Ziarat Cross will be connected with this project. This project will enhance the capacity of Supply Main and help to handle gas emergencies safely in future specifically to Ziarat Valley ultimately will be able to create 2 segments and will result in the reduction of UFG.

SUI SOUTHERN GAS COMPANY LIMITED
CAPITALIZATION DETAILS FY 2022-23

TRANSMISSION PROJECTS

S. No.	DESCRIPTION OF SEGMENT	FY 2022-23 ERR	
		KMs	Gross Capitalization (Rs. Million)
1	Replacement of 16" Dia H BP with 20" Dia (186KM pipeline from PH-2 to PH-1)		-
2	8" x 162KM pipeline from Farid Mager Gas Field (Naryo Check Valve & decom. at Jambhadr in 2021-22 Rs 72 million)		-
3	30" Dia x 28 KMs Pipeline from Aysha Gas Field (Leifover)	-	9,000
4	30" Dia x 125 KM (rev. 116KMs) Pipeline from SMS Sindh University to SMS Pakland	116	8,630,000
5	Upgradation of SMS Larkana	-	126,000
6	Upgradation of SMS Nawabshah	-	126,000
7	Check Metering arrangements at Dera (Leifover)	-	17,000
8	24" Dia x 31 Km from SMS Kathore to SMS Sonari (A.P. Sonari)	31	1,998,000
9	Modification of existing Check Metering & Regulation Setup - Shikarpur	-	65,000
	Sub-Total		10,981,000
10	New Compressor in Shikarpur to Jambhadr Re QPL (Leifover)		219,000
11	01 New Compressor Unit at Sibi OR Refurbishment of existing		2,207,000
	Sub-Total Compressors		2,426,000
	RLNG PROJECTS		
	Ph-1		
12	Tie-in and integration arrangements - Jambhadr point 2 in Pakland & Bir Qasim	-	626,000
	Ph-2 and Others		
13	42" dia x 342 Km (Ph-2) - from Pakland to Nara (Leifover in 2021-22 Rs 147 million, in FY 2022-23 Rs 210 million)	-	210,000
14	30" Dia x 17 KMs from CTS Bin Qasim to MVA Pakland	-	453,000
15	Future Extension of CTS Bin Qasim - RLNG	-	426,000
	Sub-Total		1,095,000
16	06 Compressor units & extension of facility at Nawabshah HQ-2 Dera (Leifover)		74,000
17	Repair/Overhaul of Solar T-60 Gas Turbine Engine including FAT and PSR installation charges		390,000
18	An Compressor Air Flow 326 ACFM for Dry Gas Seal and instrumentation of Solar Compressors at HQ-2		20,000
19	Additional 01 Unit of Compressor at HQ-2 for RLNG		2,202,000
	Sub-Total Compressors		2,691,000
	Sub-total RLNG	-	4,386,000
	Total - Transmission	147	17,793,000

Table # D-1.1

SUI SOUTHERN GAS COMPANY LIMITED
CAPITALIZATION DETAILS FY 2022-23

GAS DISTRIBUTION SYSTEM

S. No.	DESCRIPTION OF SEGMENT	FY 2022-23 ERR	
		KMs	Gross Capitalization (Rs. Million)
1	16" Dia x 5 KMs Pipeline from Smart Step-Down Assy. to Madinat al Hikmah	5.0	270.000
2	16" Dia x 6.2 KMs Pipeline from PSM Main Gate to Yausuf Geth Landfill	6.2	326.000
3	Reinf. Work in Qasba Mid City Area 16" dia x 18 KM Loop Line	18.0	355.600
4	18" Dia x 35 KMs Supply Main Badin	35.0	381.000
5			
6	Normal Expansion	870.0	4,733.771
7	New Towns & Villages	185.4	1,395.249
8	Rehabilitation Mains & Services (UFG Reduction Program)	680.0	1,201.456
9	Meters Replacement (UFG Reduction Program)	-	2,060.306
10	Mendons, Installation of FVC, Filter Separators, Etc - UFG Reduction Program	-	-
11	Others & Construction of CNGs, TRSs, and PRSs - UFG Reduction Program	-	3,923.643
Total - GDS - Natural Gas		1,803.6	15,140.525
GDS - RLNG (New Meters and Services)			619.093
Total GDS (Natural Gas + RLNG)		1,803.6	15,759.618
GRAND TOTAL GTPL & GDS		1,950.6	33,862.618

Table # D-1.2

SUI SOUTHERN GAS COMPANY LIMITED
ADDITION IN NETWORK (Kilometers) FY 2022-23

(Length in Kilometers)

S. No.	DESCRIPTION OF SEGMENT	FY 2022-23
A	<u>TRANSMISSION SYSTEM</u>	
1	30" Dia x 125 Km Pipeline from SMS Sindh University to SMS Pakland (1st segment)	116.0
2	24" Dia x 31 Km from SMS Kathore to SMS Surjani (ACPL Surjani)	31.0
	Sub Total - Transmission (A)	147.0
B	<u>GAS DISTRIBUTION SYSTEM</u>	
	Major Distribution Projects:	
1	16" Dia x 5 KMs Pipeline from Surjani Step-Down Assy. To Madinat al Hikmah	5.0
2	16" Dia x 6.2 KMs Pipeline from PSM Main Gate to Yousuf Goth Landhi	6.2
3	Reinf. Work at Quetta Mid City Area 16" dia x 18KM Loop Line	18.0
4	08" Dia x 35 KMs Supply Main Badin	35.0
5		
6		
B	Sub-Total	64.2
B I	New Towns/ Villages	189.4
B II	Normal Expansion	870.0
C	Sub Total - Distribution (C = B+BI+BII)	1,123.6
	Total Trans. + Distribution (A+C)	1,270.6

SUI SOUTHERN GAS COMPANY LIMITED
TECHNICAL DATA
TRANSMISSION PROJECTS FY 2022-23

S. No.	DESCRIPTION OF SEGMENT	Diameter (Inch)	Wall Thickness (Inch)	Length (Km)	U/S Pressure (psig)	D/S Pressure (psig)	Pipe Grade API SL	Proposed Capacity (ACMCFD)
1	30" dia x 125 Km (Rev. 116Km) SMS Sindh University to SMS Pakland	30	0.562"/.469"	116	664	542	X-70	247
2	24" dia x 30 ACPL to Surjani	24	0.469	34	585	570	X-60	100

SUI SOUTHERN GAS COMPANY LIMITED

TECHNICAL DATA

MAJOR DISTRIBUTION PROJECTS FY 2022-23

Sr No	Description of Segment	Diameter (Inch)	Wall Thickness (Inch)	Length (Km)	U/S Pressure (Psig)	D/S Pressure (Psig)	Pipe Grade	Proposed Capacity (MMCFD)	Status
1	16" Dia x 5 Km Pipeline from Surjani-Step-Down to Macinast-ai-Hikant	16	0.203	5	62	57	API 5L X-42	19	Under Planning
2	16" Dia. x 6.2 Km Interlink of Pasmie Main. & Landhi Main Link	16	0.203	6.2	42	37	API 5L X-42	14	Under Planning
3	Reinf. Work at Quetta Mid City Area 16" dia Loop Line	18	0.250	18	400	60	X-42	25	On Going
4	8"Ø x 35 Km Supply Main Bardin (From SMS Bardin to TRS: Bardin)	8	0.219	35	100	50	Grade B	4.25	On Going

SUI SOUTHERN GAS COMPANY LIMITED
GENERAL DATA

TRANSMISSION PROJECTS FY 2022-23

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	30" dia x 125 Km (Rev. I) Kharai-SMS South University to S.V.S. Paldiaud	1.636	5.639	This pipeline is required to transport additional gas to be received from Mangro, Mitzi, Chabara, Gundawara, Hadaf & Paldiaud, Benari, Naimar, Gumbai South & KPD. Furthermore the proposed pipeline is required to reduce RLNG pipeline by reducing bottleneck impact in transportation of the volume being swapped to SNGPL in lieu of RLNG at Swan.	This pipeline would help in increasing Company's gas and reduce energy shortage in the country.	20%	On going	June 2023
2	24" dia x 31 Km Kulture-Surjau Pipeline	1.938	1.737	This pipeline is required to transport additional gas upto 100 MMCFD to Surjau for further distribution to Loh & SITE industrial Area	This pipeline would help in increasing Company's gas and reduce pressure drop problem in SRTF area	10%	On going	June 2023

SUI SOUTHERN GAS COMPANY LIMITED GENERAL DATA

MAJOR DISTRIBUTION PROJECTS FY 2022-23

S.N	Description of Segment	Project Cost		Need Assessment	Cost Benefit Analysis	% Completion (if applicable)	Implementation Schedule	
		Total Cost PKR Million	Material PKR Million				Starting Date	Commissioning Date
1	15 Dia x 5 Km Pipeline from Surjesh Stop Down to Madhur-ul-Hikmat.	270	191	The pipeline is being proposed to off-load Vahad Link major from Sher Shah main to improve supply pressures in SUE industrial area & Orangi town. The desired results are subject to the execution of 24" dia x 3. Km Transmission pipeline from SMS-ACPL to S-Sjani) & SMS, which is under re-approval.	After execution of the project Vahad Link main and Sher Shah main would be operated separately at optimum pressures. The proposal would be budgeted for location of SUE industrial area.	-	Nov-22	Feb-23
2	16 Dia x 0.2 Km. Interlink of Gasline Main - & Landin Main Link	320	224	Presently about 18 Nos. of THSs located along National Highway is connected with SMS-FFCC, which is operating at its peak pressure 5-MS. Oak Street is operating at its minimum, due to closure of National Street. At operators. The pipeline is being planned to shift the existing road above National Highway from SMS-FFCC to SMS-Pak Street.	The downstream transfer of the project is a balancing the load of SMS-FFCC & SMS-Pak Street. Enhancement of capacity in East region. Also, commissioning of a parallel pipeline with the said SMSs would be operated at optimum conditions.	-	May-22	Apr-23
3	16 Dia x 18 Km Reinforced Work at Quetta Industrial Area	554,555	185,900	During severe winter weather, the industrial areas are affected by low pressure as the existing gas main have become inflexible due to deep snow, explosion.	After completion of this project we will be able to run the gas systems at lower pressures to facilitate the industrial areas, which is run at higher pressures as supply of gas is far and only are caused a far distance. This will ultimately reduce LFC (pressure) pressure from 6 - 8 %.	-	Jul-21	Apr-22
4	8" Dia x 35 Km Supply Main Badli-Badli From SMS-Badli to PBSI Badli	181	160	Total length of existing Supply Main Badli from SMS up to PBSI Badli is 24 Km, which has been further extended making total length of the SM around 136 Kms. Consequently, supply main capacity has been exhausted. The existing supply main (From Badli to PBSI) has come to the end of road and we cannot put further line and enhance the pressure in it to avoid emergency situation in case of emergency.	This project will enhance the capacity of supply main and be able to handle gas emergency safely in Future along Goleen Badli Road.	-	Jul-21	Apr-22

Table D-4.1-A

TRANSMISSION PROJECTS				
COST BREAK-UP				
30" dia x 125 KMs Proposed Pipeline from Sindh University to Pakland				
Rs. Million				
S.No.	DESCRIPTION	Total Project Cost	Total Actual Estimate Upto June-22	FY 2022-23
			Cost	Cost
1	Linepipe	4525.80	525.80	4000.00
2	Valves & Fittings	475.54	195.54	280.00
3	Joint Coating Material	84.72	30.72	54.00
4	Welding Electrodes	46.32	20.32	26.00
5	Cathodic Protection	16.00		15.00
6	Instruments & Metering	120.00		120.00
7	Grit Blast material	0.00		
8	Filter and Separators	120.00		120.00
9	Pigging equipment	42.00	22.00	20.00
10	Regulator and control valve	70.00		70.00
11	Misc. Inventory Expenses	52.41	2.41	50.00
12	Material Direct Supply	40.00	15.00	25.00
13	Inland Transportation	63.98	39.98	24.00
	Sub-Total	5658.77	851.77	4807.00
14	Land Acquisition & Survey	160.02	0.02	160.00
15	Damages Compensation & Rental	94.54	8.54	86.00
16	Route & Topographic Survey	8.18	8.18	
17	Design Engg. & Project Mgt.	26.06	15.06	11.00
18	Welding Inspection	45.04	10.94	35.00
19	Mill Inspection	3.00		3.00
20	EAR Insurance	20.00	20.00	
21	Pipeline Construction	855.79	185.79	790.00
22	Civil works	97.13	7.13	90.00
23	Cold cut and integration	4.00	2.00	2.00
24	Interest on borrowing @8.57%	632.05	119.05	513.00
25	Depreciation of Construction Equipment	93.88	93.88	
26	Contingencies @5%	830.64	112.32	718.32
	GRAND TOTAL	8630.00	1412.88	7217.32

Table D-4.1-B

TRANSMISSION PROJECTS COST BREAK-UP 24" dia X 31 KM Pipeline From ACPL - Suriaul				
Rs. Million				
S. No.	DESCRIPTION	Total Project Cost	Total Actual Estimate Upto June-22	FY 2022- 23
			Cost	Cost
	Material			
1	Unepipe	1000.00	0.01	1000.00
2	Valves & Fittings	100.00		100.00
3	Joint Coating Material	9.00		9.00
4	Welding Electrodes	6.00		6.00
5	Cathodic Protection	10.00		10.00
6	Instruments / Metering	65.00		65.00
7	Grit Blast material	1.70		1.70
8	Filter and Separator	50.00		50.00
9	Pigging equipment	15.00		15.00
10	Meter regulator and control valve	35.00		35.00
11	Misc. Inventory Expenses	0.00		
12	Inland Transportation	45.00		45.00
	Sub-Total	1336.71	0.01	1336.70
13	Land Acquisition & Survey	50.00		50.00
14	Damages Compensation & Rental	22.00		22.00
15	Route & Topographic Survey	2.30	2.30	
16	Design Engg. & Project Mgt	5.00	0.00	5.00
17	Welding Inspection	15.00		15.00
18	Mill Inspection	4.00		4.00
19	EAR Insurance	7.00		7.00
20	Pipeline Construction	187.04	0.04	187.00
21	Civil works	25.00		25.00
22	Cutover and integration	3.00		3.00
23	Depreciation of Construction Equipments	0.00		
24	Interest on borrowing @ 5.83%	142.00	0.15	141.81
25	Contingencies @5%	198.56	0.00	198.56
	GRAND TOTAL	1997.81	2.54	1996.07

Table # D-4.2-A

16" DIA x 5 KM PIPELINE FROM SURJANI STEP-DOWN ASSY. TO MADINAT-UL-HIKMAT

Sr#	Description	Amount PKR (in Million)
1	Cost of Line Pipe	109.95
2	Joint Coating Material	2.21
3	Grit Blast Material	0.06
4	Valves & Fittings	10.84
5	Instruments / Metering	3.00
6	Filtration	8.68
7	Pig Launcher / Receiver / Pipeline Cleaning Equipment	3.20
8	Welding Electrodes	1.19
9	Engineering Survey & Design	1.92
10	Road Reinstatement Charges / ROW	13.17
11	Inland Transportation	2.00
12	Construction Cost: <i>Ditching, Welding, Joint Coating, Lowering, Backfilling, Pigging, Air Testing, Commissioning, Camping Charges, Miscellaneous Inventory Expenses and other affiliated activities.</i>	43.30
13	Allied Civil Works	5.00
14	Mat. Inspection	0.83
15	Welding Inspection	2.23
16	Cathodic Protection	0.56
17	Cold cutting / Hot Tapping Operational Charges	1.00
	SUB TOTAL	209.14
18	Duty & Taxes / Insurance	47.16
19	Contingencies (5%)	10.46
	GRAND TOTAL	266.76

Table # D-4.2-B

16" DIA x 6.2 KM PIPELINE FROM PSM MAIN GATE TO YOUSUF GOTH

Sr#	Description	Amount PKR (in Million)
1	Cost of Line Pipe	136.34
2	Joint Coating Material	2.73
3	Grit Blast Material	0.08
4	Valves & Fittings	10.84
5	Instruments / Metering	3.00
6	Filtration	8.69
7	Pig Launcher / Receiver / Pipeline Cleaning Equipment	3.20
8	Welding Electrodes	1.47
9	Engineering Survey & Design	2.38
10	Road Reinstatement Charges / ROW	16.34
11	Inland Transportation	2.00
12	Construction Cost: <i>Ditching, Welding, Joint Coating, Lowering, Backfilling, Pigging, Air Testing, Commissioning, Camping Charges, Miscellaneous Inventory Expenses and other affiliated activities.</i>	53.21
13	Allied Civil Works	5.00
14	Mill Inspection	1.02
15	Welding Inspection	2.77
16	Cathodic Protection	0.69
17	Cold cutting / Hot Tapping Operational Charges	1.00
	SUB TOTAL	250.76
18	Duty & Taxes / Insurance	57.00
19	Contingencies (5%)	12.54
	GRAND TOTAL	320.30

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Table # D-4.2-C

16" DIA x 13 KM DISTRIBUTION MAIN
Reinforcement Scheme at Quetta, Mid City 16" Dia Loop Line

Sr. No.	Description	Estimated Cost
1	Material Cost	183.900
2	Transportation Cost	2.798
3	Construction Cost	10.683
4	Direct Departmental Cost	69.973
5	P&C Additional Cost (Camping & Misi.)	45.295
7	Road Cutting / Restoration Charges	17.413
9	Boring Charges	0.090
10	PRS Cost	2.184
11	TBS Cost	21.177
13	CP Installations	1.041
Total		354.555

Table # D-4.2-D

8"Ø x 35 KM SUPPLY MAIN BADIN
ESTIMATED PROJECT COST

(Rs. in million)

S.No.	DESCRIPTION	Cost
1	Material	
	Line Pipe	85.199
	Pipe Fittings, Valves & Joint Sleeves	21.300
	Welding Electrodes	1.100
	Coating & Wrapping	39.813
	Cathodic Protection	5.000
	Gas Odourising Unit	5.000
	Inland Transportation	2.130
	Sub-Total	159.541
2	Overhead/Direct Departmental Cost	129.219
3	Welding Inspection/Radiography	1.703
4	Mini Inspection	0.5
5	Pipeline Construction	21.310
6	Hot Tapping, SMS Construction & TBS Installation	46.200
7	Highway Permission/NOC Charges	4.945
8	Contingencies	17.924
	GRAND TOTAL	381.341

Table # D-5

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

Rs. in Millions

S.No.	Description	ERR FY 2022-23	FY 2022-23 Estimated Revenue Requirement Petition					Date of Commissioning
			Projected Capitalization(Rs. Million)	Need Assessment	Cost Benefit Analysis	% age Completion (if applicable)		
1	Rehabilitation Mains and Services Replacements: UFG Control Program	4,096						
2	Replacement/Repair of Undersized Meters	2,060					Ongoing	
3	Segmentation	173						
4	Construction of CMSs, TBSSs, and TKSs	329					Ongoing	
	Sub Total: UFG Control Program (A)	6,658						
5	Laying of Distribution Mains including services-Existing Areas and DDC	4,998					Ongoing	
6	Installation of New Connections (meters)	763					Ongoing	
7	New Towns	1,395					Ongoing	
8	Rf NG - New Connections (Meters) and Services	619						
	Sub Total: Normal (B)	7,776						
	Total CDS Other Than Major Projects: (A+B)	14,434						
9	16" Dia x 5 KMs Pipeline from Surjani Step-Down Assy. To Madinat al Hikmah	270						
10	16" Dia x 6.2 KMs Pipeline from PSM Main Gate to Yousef Gosh Landhi	320						
11	Reinf. Work at Quetta Mid City Area 16" dia Loop Line total of 18 KMs in length	355						
12	28" Dia x 3.5 KMs Supply Main Badin	381						
	Sub Total: Major Distribution Projects	1,326						
	Total Gas Distribution System	15,760						

Please refer Table: D-3.2

**DISTRIBUTION DEVELOPMENT
AND REHABILITATION PROGRAM**

Sewer Mains Diameter (Inches)	FY 2019-20 (Pakistani)					FY 2020-21 (Pakistani)					FY 2021-22 (Pakistani)					FY 2022-23 (Pakistani)					FY 2023-24 (Pakistani)				
	Length (Km)	Cost in Rs. Million		Percentage Change		Length (Km)	Cost in Rs. Million		Percentage Change		Length (Km)	Cost in Rs. Million		Percentage Change		Length (Km)	Cost in Rs. Million		Percentage Change		Length (Km)	Cost in Rs. Million		Percentage Change	
		Material Cost	Cost per Km	Material Cost %	Cost %		Material Cost	Cost per Km	Material Cost %	Cost %		Material Cost	Cost per Km	Material Cost %	Cost %		Material Cost	Cost per Km	Material Cost %	Cost %					
20	2.5	33.4	25.4	41%	0%	3.0	31.7	10.4	-7%	-22%	47.8	929.56	19.0	-	47.8	929.56	19.0	-	-100%	-100%	0%	0%	0%	0%	
16	2.0	18.5	9.5	16%	0%	10.0	121.84	6.5	568%	-30%	30.3	540.28	18.7	238%	30.3	540.28	18.7	238%	3468%	3468%	132%	132%	3468%	3468%	
12	66.4	126.6	5.0	34%	47%	32.0	245.66	4.5	58%	-9%	50.3	540.28	18.7	238%	50.3	540.28	18.7	238%	238%	238%	3468%	3468%	3468%	3468%	
8	93.2	195.7	3.3	37%	8%	54.0	289.59	3.9	-46%	-10%	71.6	481.20	6.8	349%	71.6	481.20	6.8	349%	349%	349%	277%	277%	349%	349%	
6	128.4	314.0	2.3	50%	43%	60.0	307.30	1.8	-66%	-26%	69.3	255.94	3.9	-	69.3	255.94	3.9	-	-	-	0%	0%	0%	0%	
4	307.2	307.2	1.3	60%	49%																				
2	1.2	2.3	4.4	-72%	-13%																				
1	457.2	208.2	8.6			148.6	50.14	1.6			340.8	2,248.2	9.1		340.8	2,248.2	9.1								
Sub Total	9,11.0	1,531.1	7.8																						
Total																									
FY 2023-22 (Pakistani)																									
Sewer Mains Diameter (Inches)	Cost in Rs. Million		Percentage Change		Length (Km)	Cost in Rs. Million		Percentage Change		Length (Km)	Cost in Rs. Million		Percentage Change		Length (Km)	Cost in Rs. Million		Percentage Change		Length (Km)	Cost in Rs. Million		Percentage Change		
	Material Cost	Cost per Km	Material Cost %	Cost %		Material Cost	Cost per Km	Material Cost %	Cost %		Material Cost	Cost per Km	Material Cost %	Cost %											
140	75.8	304.0	2.7	41%	3%	53.0	191.8	3.1	-73%	35%	59.7	428.6	7.1	136%	59.7	428.6	7.1	136%	136%	136%	136%	136%			
125	146.6	177.5	1.2	55%	8%	85.0	191.2	1.4	0%	66%	328.8	436.8	3.4	146%	328.8	436.8	3.4	146%	146%	146%	146%	146%			
60	480.6	131.7	1.3	50%	3%	521.0	186.8	0.6	40%	75%	454.2	651.0	1.5	359%	454.2	651.0	1.5	359%	359%	359%	359%	359%			
40	113.6	5.2	0.5	-33%	-4%				-19%	-10%	4.0	3.2	4.8	0%	4.0	3.2	4.8	0%	0%	0%	0%	0%			
30	255.2	144.6	3.5	19%	-10%	45.0	538.8	1.2			607.4	1,517.0	2.4		607.4	1,517.0	2.4								
Sub Total	993.4	667.9	6.7			101.7	1,137.0	3.7			1,055.5	5,182.9	6.8		1,055.5	5,182.9	6.8								
New Issues	237.1	9,580.0	3.3																						
Total	2,195.6	7,941.0	1.3			916.3	2,253.2	3.3			1,055.5	5,182.9	6.8		1,055.5	5,182.9	6.8								
Other Costs																									
Direct Dept. Cost (DDC)	1,780.6					1,214.8					1,214.8				1,214.8					1,214.8					
Road Recon-works Charges (RWC)						991.2					991.2				991.2					991.2					
100% (RWC) CPS		194.6				151.9					151.9				151.9					151.9					
Meter Seals		2,743.8				2,046.7					2,046.7				2,046.7					2,046.7					
Service Cops (Additions & Replacement)						500.1					500.1				500.1					500.1					
Signage						146.5					146.5				146.5					146.5					
Modernization of CVC		146.1				151.0					151.0				151.0					151.0					
Other Sewerage Etc						2,500.0					2,500.0				2,500.0					2,500.0					
Smart Meters/CVC/MS Index																									
RWC - New Connections (Material) and Services																									
Total Other Cost	5,851.2					9,632.3					9,632.3				9,632.3					9,632.3					
Grand Total	2,195.6	8,492.2	4.9			1,708.2	12,085.5	7.1			1,055.5	5,182.9	6.8		1,055.5	5,182.9	6.8			1,055.5	5,182.9	6.8			

Table # D-5.2

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

Connection Category	Physical Target (Regionwise)					
	FY 2021-22 Petition					
	Karachi		Sindh		Balochistan	
	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees
Industrial	148	1,111,231	44	1,143,672		
Commercial	400	56,720	100	56,720		
Domestic-Normal	75,619	4,680	45,665	5,895	12,000	8,598
Total	76,167		45,809		12,000	

New Connections - Cost Details

Region	FY 2021-22 Petition		
	Units	Rs. Million	
Karachi	76,167	541.1	
Sindh	45,809	311.5	
Balochistan	12,000	67.1	
Total Cost without DDC	133,976	919.7	
DDC		415.7	
Total Cost with DDC		1,335.4	

Region	FY 2022-23 Petition		
	Units	Rs. Million	
Karachi	79,951	772.5	
Sindh	37,584	298.0	
Balochistan	15,178	182.1	
Total Cost with DDC	132,713	1,253	

Table # D-5.3

SUI SOUTHERN GAS COMPANY LIMITED

DISTRIBUTION DEVELOPMENT

REPLACEMENT OF INDUSTRIAL, COMMERCIAL AND DOMESTIC METERS

Connection Category	FY 2021-22 ERR								
	Karachi			Sindh			Balochistan		
	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Units
Industrial	321	1,353,026	66	1,715,889	12	1,055,541			
Commercial	910	89,994	234	89,994	156	89,994			
Domestic	235,000	3,457	75,000	4,627	45,000	4,627			
Total	236,231		75,300		45,168				

Meter Repair & Replacement Cost Details

Region	FY 2021-22 Petition		FY 2022-23 ERR	
	Units	Rs. Million	Units	Rs. Million
Karachi	236,231	1,329	80,226	1,182
Sindh	75,300	481	37,589	495
Balochistan	45,168	235	15,195	226
Total Cost	356,699	2,045	133,010	1,903
Total Cost Including DDC of Rs. 426 million		2,470.4	Total Cost Including DDC of Rs. 158 million	

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

Table: D-5.4

Rs. in Million

Description	FY 2021-22 Petition									
	Karachi			Sindh			Baluchistan			Total Cost
	Units	Per Unit Cost	Total Cost	Units	Per Unit Cost	Total Cost	Units	Per Unit Cost	Total Cost	
<u>New Addition</u>										
TB Stations	15	2.5	37.5	7	2.5	17.5	5	2.5	12.5	67.5
TRG/TBS Station	-	-	-	-	-	-	5	2.0	6.0	6.0
CP Stations	15	2.9	43.4	20	2.9	58.2	3	2.9	8.6	110.2
PR Stations	9	0.6	5.4	6	0.6	3.6	60	0.6	36.0	45.0
Total New Addition	39	-	86	32	-	79.3	71	-	63	168.3
<u>Modification</u>										
TB Stations	15	1.3	23.9	8	1.3	10.6	5	1.3	6.7	41.2
CP Stations	20	1.4	27.6	15	1.4	20.7	5	1.4	6.9	55.2
Total Modification	35	-	51.5	23	-	31.3	10	-	13.6	96.5
Grand Total	77	-	137.5	65	-	135.2	81	-	76.7	349.4
Total Cost										349.4
DDC										143.2
Total Cost for FY 2021-22										491.0

	FY 2022-23 Petition									
	Karachi			Sindh			Baluchistan			Total Cost
	Units	Per Unit Cost	Total Cost	Units	Per Unit Cost	Total Cost	Units	Per Unit Cost	Total Cost	
	15	2.50	37.5	4	2.50	10.0	4	2.50	10.0	57.5
	15	2.80	42.0	28	2.70	75.7	3	2.80	8.4	125.1
	7	0.60	4.2	6	0.60	3.6	28	0.60	12.0	20.4
	57	-	84	38	-	89	27	-	30	143
	20	1.33	26.6	40	1.33	53.3	4	1.33	5.3	85.2
	20	1.20	24.0	15	1.20	18.0	5	1.20	6.0	48.0
	40	-	59.6	25	-	31.3	9	-	11.3	101.9
Total Cost	77	-	134.3	63	-	120.6	36	-	41.7	296.6
DDC										32.1
Total Cost for FY 2022-23										328.7

ERR PETITION 2022-23

Sl. No.	Name of Town / Village	No. of Villages	Total Mains (Kms)	No. of Connections	Cost Rs. In Millions Expected to be Capitalized FY 2021-22 Petition			Cost Rs. In Millions Expected to be Capitalized FY 2021-23 Petition			
					Over & Above to be Adj. against Grant	Own	Total	Kms	Over & Above to be Adj. against Grant	Own	Total
ERR 2021-22:											
1	NOOR MUHAMMAD JAL., ABDUL NABI BROCHI, SHEER ALI S-AD, ALI KHAN KIRSAHADI, ILNABI KHOSU, MUHAMMAD KHAN KHOSU, GUDLAM NABI FATOL, CHAK NO.17, MISRANI, SONU KERNO & ALLAH NARAYO KHEGO	10	22.90	294	65.55	23.45	89.00	23.99			
2	CHANDRO KUDHI & CHAK NO.58	2	12.22	237	21.65	17.31	40.96	17.37			
3	EMISSAN CERNI, PERIYARAD, ABDUL REHMAN, CHANDRO MATILASH & CHAK NO.1	4	4.45	268	29.61	17.60	47.21	14.45			
4	CHAK 5 ALTAF ARANI, CHAK 6 KIRAL GUJAR, ALI AQUL, CHAK 20 HANSHI ALKHED, CHAK 21 BALACH LIPANGI, CHAK 23 T. AS. KHAN, CHAK 22 BASHIR RAJPUT & CHAK 30	9	25.00	114	126.18	3.48	125.76	29.00			
5	SWAN SHAR, KRAMISH KHAN, LUGHARI & TALIB LUGHARI	3	4.45	42	14.47	3.21	17.68	4.45			
6	SH. MUHAMMAD GALEPOTO, NARSER CHANDID & MURAD CHULGAR	3	4.51	213	26.24	5.31	31.55	5.34			
7	ALIMD GALEPOTO & ALI HATHPOTS	2	5.60	74	25.81	2.11	25.92	3.60			
8	BASIR HATHPOTO & PEROT LAGHARI	2	11.22	262	21.60	15.58	37.18	11.22			
9	MEHMOOD LAGHARI	1	3.40	111	1.16	5.31	6.37	3.40			
10	OTTO SHARIF	1	4.80	30	20.70	2.99	23.69	4.80			
11	HAJELAM BUX KOLAI	1	2.20	6	12.31	0.64	12.96	2.80			
12	KHA. JOLU DING SAJITO, LEEMON ADMANI & MIR MUHAMMAD NIZAMANI	2	3.16	375	22.06	27.95	42.01	13.16			
13	SADIQUE KAZALI	1	3.00	79	5.07	1.57	9.61	3.02			
14	ALL MUHAMMAD SAJITO, TALIB SAJITO & KALOO SPTD	3	7.30	156	16.07	8.34	24.41	7.10			
15	MIR KHAN GADHI, ALLAH BASHAYO PANDHAR & KRAMESO MALHARI	3	3.00	97	3.31	2.38	10.69	3.00			

ERR PETITION 2022-23

Sl. No.	Name of Town/Village	No. of Villages	Total Mains (Kms)	No. of Connections	Cost Rs. In Millions			Cost Rs. In Millions		
					Expected to be Capitalized			Expected to be Capitalized		
					Over & Above to be (Adj) against Grant	Over & Above to be (Adj) against Grant	Total	Over & Above to be (Adj) against Grant	Total	Net
					2021-22 Petition	2021-22 Petition		2021-23 Petition		
15	NOXO PANTHAR, DOST MUHAMMAD PANTHAR & DINAR PANTHAR	1	4.10	55	12.57	2.43	14.96			4.10
17	JIANTO QADAYI & BAREEM GADALE	2	5.90	82	25.21	4.43	29.64			6.90
18	MEASMAN PANTHAR & CHAKAS DHIKLIAN	2	10.50	150	16.48	6.88	23.36			10.50
19	ASL KILAN HANZOYO	1	2.20	6	15.51	0.13	15.64			3.36
20	KHAN MUHAMMAD GADLE	1	1.70	12	4.73	0.09	4.82			1.70
21	PHULU FAQIR PANTHAR	1	1.70	24	3.31	0.14	3.45			1.90
22	AYOZB MALAH	1	4.80	16	19.91	1.11	21.02			4.80
23	AL LAH RACIAYO PANTHAR	1	3.70	63	11.85	3.62	15.47			3.70
24	PIR KANSHARIH	1	3.60	55	11.43	2.87	14.30			3.60
25	GHULAM MUHAMMAD GADLE	1	7.80	30	11.26	1.70	12.96			2.80
26	GHULAM MUHAMMAD JAFAL	1	1.20	12	3.13	0.00	3.13			1.20
27	ALI MUHAMMAD QANIBRANI	1	0.95	3	2.66	0.00	2.66			0.95
28	KHUSA BUX JATOR	1	1.80	12	7.24	0.35	7.59			1.80
29	MOOTHU	1	2.40	18	5.57	0.00	5.57			2.40
30	SUFRAS KHAN ZAMAL	1	1.50	2	3.07	0.00	3.07			1.40
31	PHULU	1	4.50	48	13.15	2.52	15.67			4.60
32	GICUTRAM KILAN PANTHAR	1	1.80	36	2.85	1.16	4.02			1.80
33	USMAN PANTHAR	1	0.91	7	2.57	0.20	2.77			0.91
34	SADAL KHAN PANTHAR	1	1.02	9	3.72	0.69	4.41			1.02

NEW TOWNS AND VILLAGES

D-5.5

ERR PETITION 2022-23

SINDH

Sl. No.	Name of Town / Village	No. of Villages	Total Master Plan (Kms)	No. of Consumers	Cost Rs. in Millions				Cost Rs. in Millions			
					Expected to be Capitalized				Expected to be Capitalized			
					FY 2021-22 Petition				FY 2022-23 Petition			
					Over & Above Allowed to be Adj. against Grant	Own	Total	Kms	Over & Above to be Adj. against Grant	Own	Total	Kms
35	DICAWAL KHAN PAKHWAR	1	1.50	15	3.31	0.00	3.31	1.50				
36	JABBO KHAN GAUFI	1	1.23	30	2.05	1.12	3.26	1.23				
37	KHAN MUHAMMAD GADHI	1	2.85	24	7.74	1.20	8.93	2.05				
38	ABDUL LATIF PAKHWAR	1	0.80	12	2.28	0.15	2.43	0.89				
39	DINAR PAKHWAR	1	1.68	5	2.05	0.00	2.05	0.68				
40	DOKKO KHAN PAKHWAR	1	0.92	30	0.82	1.42	2.26	0.92				
41	DOST MUHAMMAD PAKHWAR	1	0.87	24	1.40	0.95	2.38	0.87				
42	MAYO KHAN LUNI	1	0.82	12	1.50	0.5	2.29	0.82				
43	ANDAL KHAN PAKHWAR	1	1.15	15	2.54	0.36	3.00	1.15				
44	RAJUDA, ABUL KHALIQUE, URUS BUSTRO & UMIR BUSTRO	4	16.90	42	75.33	0.39	76.17	16.90				
45	SANGAR WASO, SHAHMUR, WASO, SALIM SHAH KHAR, WALGO SANGAR, RAJH WASO, MUHAMMAD LUX WASO & MUHAM WASO	7	9.70	25	34.72	0.00	34.72	9.70				
46	HAFI MUHAMMAD WASO, QUT BAHAR KHAN SANGAR, PIRBU MARWAR, MUHAMMAD MURAD SANGAR, DUL MURAD SANGAR SANGAR & SABAL KHAN ARHANE	8	9.10	57	38.67	0.00	38.67	9.40				
47	HAFI MUHAMMAD AGASHEE & ABDULLAH LAKHAN	2	6.84	83	25.71	0.00	26.71	6.84				
48	JUNO SANGAR	1	1.50	7	3.81	0.00	3.81	1.50				
49	ATTI MUHAMMAD SANGAR	1	1.06	24	1.79	0.55	2.39	1.06				
50	CHAND ALI SANGAR	1	2.00	30	1.67	0.60	4.47	2.00				
51	MED SANGAR	1	1.70	18	4.26	0.00	4.26	1.70				

Sl. No.	Name of Town / Village	No. of Villages	Total Meters (Feet)	No. of Consumers	Cost Rs. in Million			Cost Rs. in Million		
					Expected to be Capitalized			Expected to be Capitalized		
					FY 2021-22 Petition			FY 2022-23 Petition		
					Over & Above to be Adj. against Grant	Own	Total	Over & Above to be Adj. against Grant	Own	Total
52	WAZIRO PUN ARBO	1	0.414	24	0.00	1.63	1.63	0.41		
53	DIRINGJANO KESAN TALBANI		0.22	15	0.00	1.07	1.07	0.22		
54	GILL MUMTAZAD SOOMRO	1	1.22	76	0.00	4.10	4.10	1.46		
55	MURAMMAID HACTIAL MALHOT ZARHULASH MATTEO		1.6	64	0.00	1.56	1.56	1.60		
56	GHARA, KESAN JAGIRAN.		1.6	64	0.00	1.56	1.56	1.60		
57	PIR SAN MUMHAMAD	1	1.756	82	0.00	4.20	4.20	1.70		
58	GAUL MURAMMAID GILL / ALBHATTI	1	0.5	44	0.00	1.90	1.90	0.60		

ERR PETITION 2022-23

Sr. No.	Name of Town / Village	No. of Villages	Total Mains (Kms)	No. of Containers	Cost Rs. In Millions			Cost Rs. In Millions		
					Expected to be Capitalized FY 2022-23 Petition			Expected to be Capitalized FY 2022-23 Petition		
					Over & Above to be Adj. against Grant	Own	Total	Over & Above to be Adj. against Grant	Own	Total

R.

ERR 2022-23:

1	GULAM HUSSAIN KATRI KATRI, GHULAM ALI NAHYGON, SOGHAR KALLER, ALI MUHAMMAD KATRI, KARIM ALI KATRI, HAKIM KATRI, LAT. BUX KATRI, RAND KHATRI, GUL. MUHAMMAD KATRI & MIRZA KHATRI	11	14.723	177				76.34	9.56	86.90	14.75
2	RAJAR MALOM, ISMAIL UNAR, TAFIR UNAR, DING DAVIDI & DEEMON, MAC HE	5	9.4	117				51.09	7.15	58.24	9.40
3	GUSAYO KHASKRETA SYFID KATRI, SHAR	2	3.25	48				18.10	2.59	20.69	3.27
4	HAJAT FARBER MARI & LALOO SOLDI	2	1.5	8				5.95	0.13	7.36	1.60
5	RASHID AHMED NAHYGON & PLINHA: KHAN TASHARI	2	3.275	25				27.85	1.40	30.25	3.58
6	HAJAT ALJAZ NAHYGON	3	1	12				3.88	0.65	4.52	1.00
7	ABULALIB UNAR	1	5.8	24				50.21	1.30	51.50	3.89
8	HAJAT SULAN MALOSI	1	1.6	48				4.64	2.39	7.22	1.81
9	ALI KHAN MARI, MIR MUHAMMAD JAN & HAJI DELJAN KLOSO	2	9.2	88				59.60	4.75	64.35	9.20
10	GARFAL VILLAGE, KOT KAYAB SARDAR KHAN CHANDIO, REST HOUSE, NAWAR SARDAR KHAN CHANDIO, CHATO KHAN CHANDIO, A. RAHMAN CHANDIO & ALI DOST CHANDIO	3	1.53	59				50.54	3.73	94.27	13.30
11	MORIO CHANDIO, MAHRAH CHANDIO, SARDAR CHANDIO R. NOOR MOHAMMED CHANDIO	4	5.3	15				31.20	0.81	32.01	5.30
12	GATIRUX CHANDIO, KILADZ MUSSAM CHANDIO & SILAMMAN CHANDIO	2	6.2	20				46.78	1.57	48.35	6.30
13	MURAD MARI & RAKISKO MARI	2	8.6	15				115.36	0.51	116.17	8.60
14	RAJID MARI	1	2.4	9				21.71	0.49	22.19	2.80
15	SARFAT PALARI, SARAR & RAJAN PALARI	3	7.4	48				49.93	2.29	52.52	7.40
16	ABIR GORNIH & HABIBULLAH LAKET	2	11.7	250				23.69	15.12	38.81	11.20

NEW TOWNS AND VILLAGES

ERR PETITION 2022-23

D-5-3
SINDH

Sr. No.	Name of Town / Village	No. of Villages	Total Males (Kms)	No. of Constituents	FY 2021-22 Petition			FY 2022-23 Petition		
					Other & Above in the Adj. against Grant	Total	Kms	Other & Above in the Adj. against Grant	Total	Kms
17	ZULFIQARABAD	1	9	112				9.92	6.05	15.97
18	DETRANI	1	15.3	96				87.47	5.08	92.49
19	DEKMEGHAT	1	4.2	12				23.21	0.65	23.86
20	MISKI KHAN SOJRAYANI	1	3.8	30				29.88	1.67	31.55
21	MARCO KHAN GOLO	1	1.8	21				11.75	1.13	12.88
22	SINO KHAN GOLO	1	2.8	24				20.90	1.20	22.10
23	GUL GILCHWAR	1	3.5	21				38.37	1.11	39.48
24	AHMED KHAN SAKSOUR	1	4.8	24				59.32	1.30	60.62
25	JAGAL DIN GOLO	1	2.5	33				11.13	1.38	12.51
26	GEILAM ABBAS SOJRAYANI	1	2	5				16.72	3.32	20.04
27	SUED ALLAH WADATO SHAIF	1	2.5	6				20.88	0.32	21.20
28	SHARO GOLO	1	3.3	6				30.17	0.12	30.29
29	ABDUL KARIM CHID	1	5	6				44.74	0.32	45.06
30	SHABAZAD GOLO	1	5.5	9				30.03	0.20	30.23
31	GUL MUHAMMAD GOLO	1	2	6				16.22	0.32	16.54
32	BIHALE DINO MANGRO & PAO MAHORSO	2	0.4	9				52.47	0.49	52.96
33	JAMAL FAKR MANGRO	1	2.6	3				21.30	0.16	21.46
34	GHANIM KHAN & SUBHAN KHAN	2	6.2	7				51.85	0.38	52.23
35	HASSAN CHENVA, ABRA & MANGRO	2	9	11				70.52	0.70	71.22
TOTAL		180	468	5,227	951.695	1,044.275	278.219	1,315.969	79.380	1,395.349
										189.350

Sri Sathya Gas Co. Ltd.
Details of Plant & Machinery
For P.Y. 2022 - 23

Table D-6.1

SN	Description	Project Capitalisation (Rs. in million)	Addition	Replacement	Total	Sequestration	Utility	Unit Cost Comparison Data Rs. in million		Need Assessment/ Cost Benefits
								Ref Year	FY 2022-23	
1	Welding Plant	30,000	-	5	5	5	Distribution Intake Sindh	NA	1,000	Replacement is required for replacement of plants of Indus Alignment, S&L Section, MCC Section, Maintenance section and Combi section Section Hyd which have become out of order
2	Air Compressor	14,000	-	4	4	4	Evolution Intake Sindh	NA	1,500	Replacement required for compressors 2 nos of Reliability section and 1 No each of Maintenance section & Combi section. These are old & out of order compressors
3	AP Compressor	0,100	2	-	2	2	Distribution Intake Sindh	NA	0,050	Required for fixing the ventline of domestic customers during service replacement after water rehabilitation
4	Street Pipe squeezing machine	2,100	2	5	7	7	Distribution Intake Sindh	NA	0,300	Additional required for Maintenance Hyderabad for fixing of service line of industrial customers at high pressure.
5	Heat Exchangers machines	1,800	-	2	2	2	Distribution Intake Sindh	NA	0,400	Replacement required against old / out of order machines of region
6	Generator	1,500	-	6	6	6	Distribution Intake Sindh	NA	0,250	Replacement required against old / out of order generators of region
7	Electric Push-in Machine	2,400	2	6	8	8	Distribution Intake Sindh	NA	0,900	Additional required for PE Works & Combinations for rehabilitation jobs
8	T - Drilling Machine	3,500	-	5	5	5	Distribution Intake Sindh	NA	0,700	Replacement required against old machines of region
9	Desulfurizing Pump	0,450	-	3	3	3	Distribution Intake Sindh	NA	0,150	Replacement required against old / out of order machines of region
10	Pipe Bending Machine	0,300	3	-	3	3	Distribution Intake Sindh	NA	0,100	Replacement required against old / out of order pumps of region
11	Welding Plant	8,000	-	2	2	2	Distribution Intake Sindh	NA	4,000	Additional 1 No. required for Zonal to handle the GI pipe for U Hand connections
12	Air Compressor	3,500	1	-	1	1	Distribution Intake Sindh	NA	3,500	02 Nos. replacement required for LD Sanghar Zonal Office & LD Mandi Feroze Zonal existing plants require old and new required replacement repair
13	Butt Fusion machines	1,800	-	2	2	2	Distribution Intake Sindh	NA	0,900	Required for Reliability Department, Mandi Feroze.
14	Electric Position Machine	1,400	2	3	5	5	Distribution Intake Sindh	NA	0,300	Replacement required against old / out of order machines of region
15	T - Drilling Machine	2,600	3	-	3	3	Distribution Intake Sindh	NA	0,900	03 Nos. replacement required for 01 No. each for that & Kazi Ahmed offices
16	Electric Position Machine	1,400	2	3	5	5	Distribution Intake Sindh	NA	0,300	03 Nos. replacement required against old / out of order machines of Reliability Department and 01 No. machine of Sanghar Zonal Office
17	T - Drilling Machine	2,600	3	-	3	3	Distribution Intake Sindh	NA	0,900	Required for LD and other operational activities

Shri Sankar Gas Co. Ltd.
Details of Plant & Machinery
For F.Y. 2022 - 23

Table# D-6.1

S/N	Description	Projected Capitalisation (Rs in millions)	Addition		Replacement	Total	Segregation	Utility	Unit Cost Comparison Data		Need Assessment/ Cost Remarks
			Qty						Ref. Year	FY 2022-23	
			Rs in million								
35	Electric Electric Generator	7.500		3	3	Distribution	CP (D)	NA	2.500	For Cathodic protection of underground pipelines & pipelines	
36	Transformer Rectifier	6.000	15		15	Distribution	CP (D)	NA	0.400	Amount proposed for new CP Stations in CP Districts North Sakin & Jankant Regions	
37	Transformer Rectifier	4.000	10		10	Distribution	CP (D)	NA	0.400	For new CP Stations to be installed in FY 2022-23 for protection of distribution network in the Sakin region	
38	Flowmeter Pump	0.150	1		1	Distribution	CP (D)	NA	0.150	Required for supplying of water from meters; having 2 meter in convenient ground bed during construction & having 0.11 & 1.11 meters	
39	Transformer Rectifier System	3.500	1		1	Transmission	CP (T)	NA	1.500	Additional is reqd for KML-88 on QFL to meet current requirements in this area. Replacement are reqd for MP-55 (1.500), KML-88 (1.000) & KML-88 (1.000)	
40	Solar Module 150 Watts	0.750	50		50	Transmission	CP (T)	NA	0.015	Additional are reqd for upgrading of existing solar system installed at various locations to meet lighting requirements	
41	Generator	15.000		3	3	Corporate Services		NA	5.000	These generators are prime source of Power. The existing generators at RS Sari, RS Kanchur & RS 3 installed 12 years back have already completed its useful life and are now frequently developing faults and are beyond economical repair. In view of safety & order conditions and for smooth & uninterrupted SCADA & Teleside system, the old generators needs urgent replacement	
42	Generator	15.000	3		3	Corporate Services		NA	5.000	Additional Generators required for smooth operation of System as Generators are installed at Kanchur (Sari) are prime source of power. RS Sari, RS 3 and RS 2 are 12 years old. There are in the service of power generation for 200000 & 10000000 operation of SCADA & Teleside System and Security logging Gas in Law & order situation	
43	Generator	2.450	7		7	Corporate Services		NA	2.150	Practical Gas Engine Generator required found by group in view of failure of 4000 series of power supply for Teleside and SCADA & security System at Critical receptor Stations	
44	Generator	2.500	1		1	Corporate Services		NA	2.250	Required for replacement of 15 years old Gas Engine Generator. This Generator is Prime Power source of Electricity for HVAC, Office Block & HD Hydrobox	
45	Marketing Lift Main Motor	1.000	1		1	Corporate Services		NA	1.000	Spares is critical in nature and there is no backup in store	
46	Marketing Lift Door Motor	0.300	1		1	Corporate Services		NA	0.300	Spares is critical in nature and there is no backup in store	
47	Marketing Lift Motor for Door Drive Motor	0.300	1		1	Corporate Services		NA	0.300	Spares is critical in nature and there is no backup in store	
48	Main Receptor for Marketing (30)	2.000		1	1	Corporate Services		NA	2.000	Spares is critical in nature and there is no backup in store	

Sai Southern Gas Co. Ltd.
Details of Plant & Machinery
For F.Y. 2022 - 23

Table D-6.1

Sl. No.	Description	Proposed Capitalisation (Rs. in million)	Addition	Replacement		Total	Reorganism	Utility	Unit Cost Comparison Data		Need Assessment/ Cost Remarks
				Qty					Ref. Year	FY 2022-23	
New Capitalisation for Non-Operational Plant for Non-Operational Plant											
62	New Control Panel for Kong Elevators at Marketlog Building	2,900	1			1	Corporate	Services	NA	2,900	Model of 14 Nos. existing Control Panel are obsolete and also spares are not available with local supplier and international price is high. Therefore its beyond repair in mainline spares
63	Rehabilitation / Upgradation of BMS Systems (Phase - I)	25,000	1			1	Corporate	Services	NA	25,000	BMS System is essential part for monitoring of HVAC System, Lighting System & other installed equipments. Existing BMS System is 10 years old & presently is not functioning properly due to obsolete software & require reliability / upgrade
64	Water pressure washer machine 7000 PSI	3,000	1			1	Transmission	COMPRESSION	NA	3,000	Machine required for Maint. of HOP of Solar Gas Turbine and Diesel Band Gas Turbine at HQ-2 & other Station
65	Hand Drill Machine	4,000	2			2	Transmission	COMPRESSION	NA	0,000	Required for Construction / maint' workshop use at HQ-2 & Substation Comp. Station
66	Hand Drill Machine	4,000	2			2	Transmission	Transmission	NA	0,000	Pumps are too old to function properly therefore new pumps are required for power water supply to compressor area and HQ-2 Substation area
67	New Airline Pump	4,000	1			1	Transmission	Transmission	NA	0,000	In 10th station water accumulates at different areas of compressor section and poses hazard due to which access to those areas is very difficult. For the smooth operation of the said equipment it is necessary to have a new pump
68	Generator	3,200	1			1	Transmission	Transmission	NA	3,200	Generator is required for the needs of BPL, CP and instrument working late in the night at remote locations
69	Air compressor	4,500	1			1	Transmission	COMPRESSION	NA	4,500	1 HP 2000 psi pump are air operated which require a dedicated air compressor for its operation
70	Submersible pump with motor	1,500	1			1	Transmission	TRANSMISSION	NA	1,500	Pump are two Nos. Submersible at HQ Quarry and we need to have 1 No. 3 HP 3 phase Submersible motor pump
71	Tractor Jack Tridley	4,500	1			1	Transmission	Transmission	NA	4,500	Required for R/W Land Filling Work.
72	Replacement of Filteration Setup Valves	30,000	1			1	Transmission	Transmission	NA	30,000	175 Spec. & HQ-2 Filteration Setup Valves are faulty. It is very difficult to clean Filter separator therefore replacement of valves is required
73	8" Dia Control Valve	15,000	1			1	Transmission	TRANSMISSION	NA	15,000	Required for regulation setup at NVA ACPI

Sri Saurashtra Gas Co. Ltd.
Details of Plant & Machinery
For F.Y. 2022 - 23

Table# D-6.1

Sl. No.	Description	Projected Capitalization (Rs in million)	Addition	Replacement	Total	Segregation	Utility	Unit Cost Comparative Data		Need Assessment/ Cost Benefits
								Ref. Year	FY 2022-23	
102	Water Motor 19 KVA	0.500	1	-	1	Corporate	Admin Services	NA	0.500	Required for Sandipat S-14
103	Generator 5 KVA	0.250	-	1	1	Corporate	Admin Services	NA	0.250	Required for Sandipat S-14
104	Solar Panels with Inverter	1.000	1	-	1	Corporate	Admin Services	NA	0.00	Required for Sandipat S-14
105	Gas Flow Computer & Stream	45.000	-	-	-	Transmission	Measurement Transmission	NA	1.500	25 Nos. 4 Stream Gas Flow Computers of Emerson, Model - FH-400 are in operation on entire Transmission Network. The vendor has informed that this model is now obsolete and they will not be able to provide spares of this model in future. There flow computers were procured during last 15 years time and require defects develop at their installations. Therefore, we have placed an order of flow computers in FY 2022-23 to increase the reliability.
106	Multifunction Calibrator	25.000	2	-	2	Transmission	Measurement Transmission	NA	1.500	02 are required for use in HQ DAADU for calibration of CTS DAADU RMS Meter and SMS and Check Meters in Dadu Section & HQ-Quetta for calibration of Check Meters & SMS in Quetta Section
107	Temperature Ratio Calibration	2.000	2	-	2	Transmission	Measurement Transmission	NA	2.500	Required for calibration of temperature transmitters & MVMS
108	Digital Ultrasonic meter with Temperature Probe	0.200	3	-	3	Transmission	Measurement Transmission	NA	0.100	Requires for temperature calibration of SVC meter installed at SMSs & HQ Check Meters
109	Digital Pressure Gauge @ 2400 psi	1.000	2	-	2	Transmission	Measurement Transmission	NA	0.200	Required for pressure calibration of PCCV, PCCV, installed at SMSs & HQ Check Meters
110	Wireless Walkie Talkie Set	0.500	3	-	3	Transmission	Measurement Transmission	NA	0.100	Required for communication in hazardous Area during Power Computer Calibration
111	Temperature Simulator	0.500	2	-	2	Transmission	Measurement Transmission	NA	0.100	Required for Calibration of Temperature Transmitters installed at SMSs and Check Meters
112	Durable Surface Roughness Testing Machine	0.800	2	-	2	Transmission	Measurement Transmission	NA	0.400	For Testing of Surface plate roughness at All SMSs and Check Meters as per Recommendation of Kellen Report
113	AC/DC Clamp Meter	0.100	2	-	2	Transmission	Measurement Transmission	NA	0.050	For Checking AC/DC charging current in battery banks installed at CTS HQ-Quetta and CTS Sawai Usman Sudd
114	Water Tester	0.150	1	-	1	Transmission	Measurement Transmission	NA	0.150	For Testing of communication cable between MVS and Flow Computer

Sul Southern Gas Co. Ltd.
Details of Plant & Machinery
For F.Y. 2022-23

Table# D-6.1

S.N	Description	Projected Capitalization (Rs. in million)	Antireon	Replacement		Total	Sequegration	Liability	Unit Cost Comparison Data		Prob Assessment/ Cost Benefits
				Qty	Qty				Ref. Year	FY 2022-23	
115	Online Gas Chromatograph	60.000		5		5	5	Transmission	NA	2,000	Required for replacement in delivery on the cut dates purchased in 2011 and 2004 which are beyond economical repair
116	Portable H ₂ O ₂ Analyzer	17,500	2			2	2	Transmission	NA	8,750	Portable H ₂ O ₂ Analyzer Units shall be stationed at each locations of H ₂ O ₂ and H ₂ O ₂ for spot checking of H ₂ O ₂ at respective Check Meter stations and other gas quality monitoring locations in network
117	Portable H ₂ S & CO Gas Analyzer	17,500	3			3	3	Transmission	NA	5,833	Portable H ₂ S & CO Gas Analyzer Unit shall be stationed at each locations of H ₂ S and CO for spot checking of H ₂ S and CO at respective Check Meter stations and other gas quality monitoring locations in network
118	Sample Probe for Gas Sample Collection	30,000	30			30	30	Transmission	NA	1,000	Gas Sample Probes are required to install at Monitoring locations from where gas samples are collected to meet the relevant code and as per recommendation of Measurement Consultant
119	Analytical Equipment Monitoring System	70,000	1			1	1	Transmission	NA	70,000	Required for Online Monitoring of analytical equipments, online removal, archiving & for checking of the equipment in service, on-site network
120	Control Panel	0,150		1		1	1	Corporate	NA	0,150	Required for Isolated Region
121	Air Compressor	10,000	1			1	1	Distribution	NA	2,500	Required for Testing of H ₂ FL / CFL tanks to be deployed for Revision of Checking work & future Corrosion jobs.
122	Pipe Drilling Machine	1,200		3		3	3	DIST. DISTRIBUTION CENTRAL REGION	NA	0,400	Required to equipped all Maintenance teams in order to attend lost pressure components and to carry out emergency maintenance.
123	Pipe Squeezing Machine	2,500	2			2	2	DIST. DISTRIBUTION CENTRAL REGION	NA	0,500	Required to equipped Welding teams in order to carry out repairs during new connections
124	Pipe Squeezing Machine	2,500	2			2	2	DIST. DISTRIBUTION CENTRAL REGION	NA	0,500	Required to equipped Welding teams in order to carry out repairs during new connections
125	Welding Plant	14,000	2			2	2	DIST. DISTRIBUTION CENTRAL REGION	NA	3,500	Required for welding tanks / to replace old and defective tanks
126	De-aerating Pump Centrifugal Type	1,200	1			1	1	DIST. DISTRIBUTION CENTRAL REGION	NA	0,400	Required for de-aerating during recalculation jobs.
127	De-aerating Pump Diaphragm Type	1,200		1		1	1	DIST. DISTRIBUTION CENTRAL REGION	NA	0,200	Required for de-aerating during recalculation jobs.
128	Generator	0,500		5		5	5	DIST. DISTRIBUTION CENTRAL REGION	NA	0,100	Required for P.F. Welding teams. Replacement required for defective.
129	Gas Metal Fusion Machine	3,000		10		10	10	DIST. DISTRIBUTION CENTRAL REGION	NA	0,300	Required for P.F. Welding teams, replacement of old / defective machines

Rs. in Million

S.N.	Description	Projected Cost Rs.	Additional Units	Requirement Units	Total No. of Units	Util. Cost Comparison Data		FY 2022-23	Need Assessment	Cost Benefit Analysis
						Ref. Year	FY			
1	Car 1000 CC	11,200		0	0			2,200	1. Enhancement of LPG reduction oriented activities and expansion in transaction and Distribution Network 2. Provision of connections to new customers in the existing areas, new towns and villages of Sindh and Balochistan 3. Boosting up surveillance & monitoring 4. The replacement of old vehicles which have become redundant has been proposed during F.Y. 2022-23. The old vehicles have become uneconomical and due to frequent breakdowns are badly affecting efficiency.	The acquisition of proposed vehicles will facilitate the company to meet OQRA 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	Hi Roof Van	61,200		35	35			1,200		
3	Motorcycle 125 cc	1,250		10	10			0.125		
4	Motorcycle 70 CC	8,075	24	71	95			0.085		
5	Pickup 800 CC	34,050		47	47			1,150		
6	Pickup Single Cab 0.4x2	810,000		115	155			6,200		
7	Vehicle Tracking System	2,000								
8	Body Fabrication for Pickup 800 CC	2,750								
9										
GRAND TOTAL		953,515	24	320	324					

SUI SOUTHERN GAS COMPANY LIMITED

Table# D-6.3.1

DETAILS OF VEHICLES (OPERATIONAL & NON-OPERATIONAL)

PETITION 2022 - 23

151

				Rs. In Million
S#	OPERATIONAL VEHICLES	ADD.	REP.	TOTAL
1	Car 1600 CC		6	13.200
2	Hj Roof Van		51	61.200
3	Motoreycle 125 cc		10	1.250
4	Motoreycle 70 CC	24	71	8.075
5	Pickup 800 CC		47	54.050
6	Pickup Single Cabin 4x4		135	810.000
7	Vehicle Tracking System	-		2.000
8	Body Fabrication for Pickup 800 CC		-	3.760
	Sub-Total Operational (A)	24	320	953.535
	NON-OPERATIONAL VEHICLES			
1				
2				
3				
	Sub-Total Non-Operational (B)	-	-	-
	Grand Total (A+B)	24	320	953.535

Sui Southern Gas Company Ltd.

Details of Buildings

For F.Y. 2022 - 23

S. No.	Description	Revenue Petition 31st March	Segregation	Need / Justifications
1	Construction of Workshop : stores RCC Construction Size 15'x22' crumpled wiring with all fitting, tile flooring in Corridor in Front. Total area 3362 Sq.Ft. with additional steel racks & storage on 2 sides of the store.	2,640	Distribution	Add formal shops/stores as required for MEC & Re-enforcement systems.
2	Painting Block for painting areas of RO & Pipe Yard Sukkur. 1400 Sq. feet	0,150	Distribution	To maintain empty areas of RO Building and Pipe Yard Sukkur.
3	Roof removed and reconstruction with oblong and pistol on 2nd Shah Jahan SSGC Office 1670 Sq feet	3,674	Distribution	Existing roof is beyond repair and required to dismantle and reconstruct RCC roof beam including misconnections and work of civil, electrical, plumbing.
4	Construction of Store Room for Shahdadkot Office 12' x 14' - 192 Sq feet	9,560	Distribution	Construction of new store room for SSGC Sub Zone Shahdadkot.
5	Upgrading of Oil No. gate of water at main gate, adjacent to Shahbaz Colony side. 10' x 14'	6,250	Distribution	Existing gate has become old, gone below ground level, its lower foundation buffed into earth needed to be reconstructed above ground along street level.
6	Each filling with stone powder and sand cushioning with construction of paver peds. 9980 Sq feet	3,992	Distribution	It may be considered in front of work shop, back side of Masjid, front area of Pipe yard and back side of main gate.
7	Construction of Washrooms (Additional) 6' x 3' each	0,300	Distribution	Existing wash rooms of RO Larkana has become inadequate, no additional 02 nos. required for female employees. The same construction included RCC, Tiles with all necessary accessories.
8	Construction of 5' wide over office main gate (for her material) 15'x100' with height 22 feet-1500	0,900	Distribution	Providing facility to security staff for performing smooth duty during summer and winter season.
9	Modification / Renovation of Bungalows and Quarters at Karachi Terminal US	35,000	Corporate	for modification / renovation of bungalows and quarters at K.T. in phases (Rs. 18 million in 2022-23) and remaining amount in 2023-23.
10	Re-Construction Boundary Wall (remaining portion) from near IDC gate to onward including barbed wire, angle iron, razor wire etc. 410 Rft	3,400	Corporate	The foundation of existing boundary wall is more than 40 years old and has been raised time to time as per requirement. The external road & buildings has also been raised due to which new strengthen construction of New is essential for security point of view for which re-construction of boundary wall is required.
11	Rehabilitation of Drainage System for T. & quarters US	0,500	Corporate	Existing Drainage system needs to be replaced.
12	Re-Construction of Boundary wall along Abul Hasan Iqbal Road 680 Rft	3,600	Corporate	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 been raised due to which raising has become essential from security point of view for which re-construction of boundary wall is required.
13	Re-furnishing of Transport Office Building 1400 Sq	1,000	Corporate	Floor and roof requires repair/renovation due to its bad condition.
14	Acquisition of Land for New CP Stations 10'x10'	3,800	Distribution	Amount proposed for new CP stations land as & where required at CP Distribution South.
15	Acquisition of Land for New CP Stations 10'x10'	2,500	Distribution	Amount proposed for new CP stations land as & where required at CP Distribution North Lower Sindh.

Sul Southern Gas Company Ltd.
Details of Buildings
For F.Y. 2022-23

S No.	Description	F.Y. 2022-23 Revenue Position Rs Millions	Segregation	Need / Justifications
16	Acquisition of Land for New CP Stations 10x10'	2,500	Distribution	Amount proposed for new CP stations land as & when required at CP Distribution North - 132nd Street
17	Acquisition of Land for New CP Stations 10x10'	2,500	Distribution	Amount proposed for new CP stations land as & when required at CP Distribution North - 132nd Street
18	Solar Room Size = 30' x 34' x 10'	2,000	Transmission	Additional CPS is required for KMP-88 on QPL to meet high current requirement in this area
19	Telecom Equipment Room at RS-3	3,000	Corporate	Old building was constructed in 1955 and is in deplorable conditions. Need a new Building for necessary placement of Telecom Equipments
20	Shade with Gal Pipes and Chain fencing at RS - Kadeji	4,000	Corporate	Spares and inventory items are collected from different locations and kept at RS - Kadeji before shipment. No Shade is for safe custody of equipments from sun light and rain
21	Renovation of N.T Power House	2,000	Corporate	New power house at K.T. is operational and Control room requires doors & windows, tiling jobs, flooring job with elevator plines for safe operation. This is essential requirement & is per HSE policy
22	Renovation of Power House at LQ-Queero	2,400	Corporate	Existing condition of power house wall and floors are in worst condition due to weather conditions as roof & wall are affected by high ambient temperature. As Good house keeping is urgently required.
23	Fixed office L.H Shah garden, Guide, Lift Cabin/garden, Landfill shed (Conglomerate Work)	1,500	Corporate	Existing condition of L.H Shah, lift, are in worst condition. No repair work inside L.H shed carried out since operation of Elevators. It is HSE requirement any road house keeping.
24	Plates and Flooring Work at RD Hyderabad	0,700	Corporate	Existing condition of wall and floors are in worst condition at Control Chiller room at RD Hyderabad. Due to Weather condition roof & wall are affected by high ambient temperature. As Good house keeping is urgently required.
25	Rehabilitation/Repairing of pile caps for 16" dia MPFL from KMP-06 to KMP-107 (210-1)	3,449	Transmission	Due to wind-17 the depressed hedge at 2016-17 st. No 3 layers refresh the same to carry out the job. At present the area appears to be a pond. Due to the sewage water logged area. The pile caps are badly damaged as it is completely surrounded by water. MPFL was over headed in the past due to one severe water logged area in this section
26	Re-construction of boundary wall of NVA Sahelpur at K.P-121	1,280	Transmission	Deteriorated position of existing boundary wall needs new construction & repairing is beyond economical expenses.
27	Reconstruction of boundary wall of HQ west side	1,200	Transmission	Deteriorated position of existing boundary wall needs new construction & repairing is beyond economical expenses
28	Renovation, repair & maintenance Executive Mess	6,000	Transmission	132nd Street Building is very old. Constructed in 1954. Constructed in 2004. It has developed cracks in the roof and walls inside out. The residential rooms are in poor condition & cannot be used due to safety issues. The water lines are leak. Floor need repair & replacement.

Details of Buildings

For F.Y 2022 - 23

S. No.	Description	Revenue Peshkash Rs. Million	P.Y. 2022-23	Segregation	Need / Justification
29	Re-Flooring at SWS Site	1.209		Segregation	Existing floor is sunken / damaged need re-construction
30	Re-Construction of Overhead Water Tank	6.000		Transmission	From JSSC point of view and also due to its worse condition the Over Head Water Tank is to be re-constructed
31	Re-Construction of Boundary wall and Flooring of SWS Data Murat Jamali KMP-36	1.446		Transmission	The existing boundary wall is badly damaged and require re-construction
32	C.C Flooring at CRI	1.281		Transmission	There exist no C.C floor due to which huge losses / gaps developed, which is a safety hazard, therefore, C.C flooring is required.
33	Flooring for MVA Data Bugi KMP 47	0.400		Transmission	Existing floor is sunken / damaged need re-construction
34	Solar Room	2.400		Transmission	Additional CP Section is required for KMP-40 on QPL to meet high current requirement in this area
35	Care Taker Room	0.800		Transmission	Required at KMP-372 on IRNP as there is no caretaker room with CP station.
36	Search and security lights arrangements along with Construction of boundary wall	4.100		Transmission	In the light of Security Department's observations of key point # 1258-II
37	Repair of Medical Centre Larkana	0.500		Corporate	Repair & Renovation of medical centre Larkana
38	Construction of Nawab Shah Store	25.000		Corporate	An amount of Rs. 15.52 million was approved in Capital Budget for FY 2016-18 & 2019-20 for the construction of Stores warehouse and allied facilities at HQ-11 Nawabshah. This amount includes Rs. 13.5 million for construction of warehouse while Rs. 5.82 million were allocated for office block and flooring of the store premises. The approved budget could not be materialized due to change of scope of work and change of location of the proposed store building, resulting in abnormal delay. However, construction of requisite facilities is necessary since existing store building at Nawabshah is decaying and dilapidated with leaky roof. This facility is absolutely inadequate for storage of Compressor Resale Inventories.
39	Construction of office room/hall at KT Store (Opp. J.S.S.C. Site)	10.000		Corporate	In view of the recent developments associated with extraction of Measuring Tares and other usable components from retired meters at K.T. Meier Yard by MMT, a separate covered facility is required for this on-going activity. A total covered area of 3,000 SF has been proposed which includes a working hall and two rooms for official work record keeping and data processing. These rooms will also be utilized for other Meter Management related activities. It is planned that at least one executive will be posted on permanent basis in the yard for which no facility is available at present. Besides, there is no facility of drinking water and wash room in the yard where staff/author is regularly engaged in metering activities. This amount will be utilized for provision of above facilities at Retired Meier Yard at K.T. Stores.
40	Construction of Power Patch Flooring at Gulshan Store-DRC	5.000		Corporate	Construction of Power Patch Flooring at Gulshan Store-DRC. Existing floor is completely deteriorated

Sri Southern Gas Company Ltd.

Details of Buildings

For F.Y. 2022-23

S.No.	Description	F.Y. 2022-23 Revenue/Expenditure Rs. Million	Segregation	Need / Justifications
41	Renovation of 02 Bathrooms Rooms at Recovery H.O.	1.000	Sales	Renovation required for bathrooms of Recovery Department
42	Renovation of 03 Rooms at K.T.	0.500	Sales	Renovation required for 03 Rooms in Recovery K.T.
43	RCC hall for Industrial Power (1500 Sq. Ft.)	10.000	Distribution	It is required for new Industrial power of capacity upto 230,000 cbb/hr.
44	Sound Proof Glass Window for Industrial Motor Testing Section 200 sq. ft.	0.300	Distribution	Required to eliminate Noise Hazard as identified by HSI&QA Department which was assessed based on observation raised through ISO 9001:2015 QMS 1st Surveillance Audit
45	Renovation of MRS-KT Building Complete 1st	5.000	Distribution	Roofs given is due before then 10 years
46	Pre-Delivery Inspection Area for meters Complete Job	0.500	Distribution	Required for inspection of repaired / new meters at the time of final handover to Stores Department for utility assistance
47	Flooring of MRS & New R&D Building 1040 sq. ft.	2.500	Distribution	Required to avoid rainwater
48	Renovation of MRS-Mysore Building	0.520	Distribution	Renovation is due (More than 10 years)
49	Civil Work LMS Store/Work Shop 400 Sq. ft.	1.000	Corporate	Existing Store & Workshop was situated in old room adjacent to LDC has been demolished and new LDC Lab is constructed. AS requires new workshop space for carpenter and sewer
50	Construction on Sanage-Failed Plot 4th Story Building 927.3 Sq. Yards	50.800	Corporate	Total Tentative Amount retained in first year of the project will be = Rs. 300 Crores (Cost of 1st year Budget including approval of framing & miscellaneous expenditures). Remaining amount will be required as per year wise requirement accordingly.
51	Construction on Newilsale Plot Multi Story Building 8400 Sq. Ft.	100.000	Corporate	Company has its own plot at NKB and located in its rented premises due to which old has decided to construct a building on own plot to save the rent.
52	Construction on 158 Plot Double Storey 250 Sq. Yards	22.000	Corporate	Old Plot has been explained one to which reconstruction is required
53	Demolishing & Reconstruction of Staff canteen near emergency gate and behind Instruments workshop at F-37 and F-76 SITE	0.800	Distribution	Renovation work required
54	Construction of vehicle parking shed with fixing of UPVC gate at F-37 SITE 4500 Sqft	4.500	Distribution	Renovation work required
55	Providing & fixing of CC Pavers 80 mm thick in front of main office at F-37 SITE (2500 Sq.ft.)	0.350	Distribution	Renovation work required
56	Providing & fixing of Industrial floor tiles at MTE shop F-37 SITE 14000 Sqft	0.800	Distribution	Renovation work required
57	Reconstruction of Gable end of service shed at F-76 Deger yard SITE 12500 Sqft	1.000	Distribution	Renovation work required

Sai Southern Gas Co. Ltd.
Details of Telecommunication
For F.Y. 2022 - 23

S.N.	Description	Add	Rep	Amount Rs in million	Segmentation	Need / Justification
1	SCADA PCS SYSTEM	20		2.000	Corporate	New License are procured in 2021-22 Budget. Hence Computer Systems are required
2	SCADA Workstations	10		5.000	Corporate	SCADA Workstations are required for Gas Control RT to give real-time monitoring of Pipeline parameters
3	SCADA Display Screens	4		0.600	Corporate	SCADA Display Screens up to 35 inch are required for Gas Control RT
4	Microwave Link Between H/22 and H/3 Hyderabad	1		15.000	Corporate	Microwave Link is required to upgrade frequency from 20GHz to 30GHz and in compliance of PTA
5	Solar System for RS Kanchan		70	1.000	Corporate	Solar System 400 watts Module are required for RS Kanchan to power up Telecom System
6	Battery Bank for QPL Telecom System	6		2.952	Corporate	Battery Bank of 48VDC is required to increase back up time of telecom system for QPL
7	PADMA PRC and SIP Licenses along with hardware	5		5.000	Corporate	License of PRL and SIP are required to connect PRC and SIP in RT: Hyd Station and along with Network
8	Remote monitoring system for Transmission CP Stations	1		3.000	Corporate	Remote Monitoring system for Transmission CP Stations shall be required to monitor status of CP Stations voltage and current status
9						
Total		47	20	30.552		

Table#D-6.7

Sui Southern Gas Co. Ltd.
Details of Tools & Equipments
 For F.Y. 2022-23

Rs in million

S/N	Description	Addition Units	Replace Units	Units Total	Amount
1	2 HP Motor		1	1	0.300
2	Air Blower	1		1	0.025
3	Air Blower (Heavy Duty)	2		2	0.040
4	Air Compressor for Tyre	1	-	1	0.100
5	Angle Grinder	9	-	9	0.270
6	Baby Grinder	6		6	0.300
7	Baby Grinder	1		1	0.010
8	Baby Hand Grinder Machine 2"	2		2	0.030
9	Baby Hand Grinder Machine 4"	2		2	0.030
10	Battery bank for 100 KVA UPS at Karachi Terminal		2	2	7.200
11	Battery Charger	24	2	26	4.300
12	Belr Alignment Tool	1		1	0.400
13	Blower Garden	1	-	1	0.100
14	Blower Motor for HVAC Head Office	2		2	0.500
15	BP Apparatus		20	20	0.120
16	Chain Pulley Block	3	-	3	2.200
17	Clamp Meter with accessories	1	2	3	0.150
18	Coating Thickness Gauge	1		1	0.150
19	Current Source		2	2	0.400
20	Cyber Locks/ Keys & Other Hardware Accessories	500		500	46.400
21	Dead Weight Tester	1		1	0.800
22	Dial Indicator with Magnetic Stand	6		6	0.900
23	Die Set (1/2" to 1")	3	7	10	0.500
24	Digital Multi Meter	2		2	0.020
25	Digital Pressure Gauge	7	-	7	1.220
26	Digital pressure gauge	10		10	0.300
27	Digital Test Gauge Range 0 to 2000PSI	2		2	0.800
28	Digital Test Gauge Range 0 to 30PSI	3		3	0.900
29	Dry Test Meter	7		7	14.000
30	Dryer for Compressor	1	-		0.300
31	Electric Blower	12			0.300
32	Electric Lawn mowers	2			0.040
33	Electric Pipe Threader Portable	1			0.300

Sui Southern Gas Co. Ltd.
Details of Tools & Equipments
 For F.Y. 2022-23

S/N	Description	Rs. in million			
		Addition Units	Replace Units	Units Total	Amount
34	Electric Tree Trimmer	1	-		0.050
35	External clamp 24" dia	-	2		1.600
36	External clamp 30" dia	4	-		4.000
37	Eye / Head Massager	1			0.050
38	Field Metrology Well Temperature Sensor	2			0.600
39	Film thickness gauge	1			0.015
40	Fire Beater with Iron Pipe Handle	40			0.024
41	Fire Bucket	360			0.180
42	Fitting tools	1			0.200
43	Foot Massager	1			0.070
44	Gas Cutting & Welding Set	4	5		1.350
45	Gas leak Detector	26	43		44.450
46	Grease Gun	1			0.100
47	Grinder	4	1		0.185
48	Hand Pallet Truck	1	-		0.080
49	Handheld X-Ray Fluorescent Machine (XRF)	1			10.000
50	HART Calibrator	2			1.600
51	Heavy Duty Rechargeable Light	1			0.050
52	High Pressure Calibrator	1	1		1.200
53	High-performance soldering station.	3			0.090
54	Holiday detector	2	10		4.900
55	Hot Blow Gun		1		0.100
56	Hydraulic Grease Gun	4			1.600
57	Hydraulic Lift Table	1	-		0.170
58	Hydraulic Pallette	4			1.600
59	Hydraulic Test Kit	2			0.600
60	Hydraulic Trolley Jack	1	-		0.025
61	Impact Tool Driver	4			0.400
62	Infrared Lamp For Physiotherapy	1			0.015
63	Lawn Mower (Local Make)	2	-		0.080
64	Long Range ultrasonic Thickness equipment	1			3.500
65	Loop test meter	1			0.500
66	Loose Tools	20			1.850
67	Low Pressure Calibrator	1	1		0.080

Sui Southern Gas Co. Ltd.
Details of Tools & Equipments
 For F.Y. 2022-23

Rs in million

S/N	Description	Addition Units	Replace Units	Units Total	Amount
68	Manual Pallet	3	3		0.390
69	Measuring Tool Set	4			1.200
70	Measuring Tools	1			0.500
71	Measuring Wheel	1			0.450
72	Micro bath temp source	1			0.100
73	Micro Bath Temperature Source	2			0.600
74	Multi Functional Calibrator with Complete Kit	1	-		1.000
75	Multimeter	3			0.600
76	Multimeter (Digital)		2		0.100
77	Multimeter Digital with accessories	1			0.050
78	Oscroscope	1			0.025
79	Pedestal Grinders	4			0.400
80	Pipe & Cable Locator	1	2		0.900
81	Pipe Cutter	2			0.060
82	Pipe Lifting Tong 24" dia		4		6.000
83	Pipe Lifting Tong 30" dia	4	-	4	7.200
84	Pipe locator	2		1	0.600
85	Pipe Squeezing Machine	1	1	2	0.800
86	Pipeline & Cable Locator		2	2	1.000
87	Pipeline locator	7	4	11	6.400
88	Pipeline Locators	1	1	2	0.600
89	Plunger Bar	10	30	40	4.000
90	Pneumatic Screwdrivers	20		20	2.500
91	Pneumatic Test Kit	4		4	0.700
92	Portable Air Compressor for Tyre	5	-	5	0.050
93	Power Grinder	3	-	3	0.075
94	Pressure Calibration Module (Dual)	2		2	0.800
95	Pressure Gauge	-	15	15	0.750
96	Professional Angle Grinder (Heavy Duty)	4		4	0.400
97	Pump with Motor for Gascor Generator	2		2	1.800
98	Ratchet Die Set	9	-	9	0.270
99	Ratchet Die Set	-	20	20	1.000
100	Ratchet Spanner Set	10		10	0.050
101	Riveter	4		4	0.100

Sui Southern Gas Co. Ltd.
Details of Tools & Equipments
 For F.Y. 2022-23

Rs in million					
S/N	Description	Addition Units	Replacoe Units	Units Total	Amount
102	Road Breaker / Hydraulic Jack Hammer	1	-	2	0.300
103	Screw Wrench 12", 14", Pipe Wrench 12", 14", Folding Steel	20		20	0.200
104	Shovel with handle	50		50	0.028
105	Solar Battery Tester	2		2	0.300
106	Solar Module Analyzer	1		1	0.250
107	Sound level Meter	1		1	0.015
108	Stethoscopes		20	20	0.100
109	T.D.S Meter	1		1	0.015
110	Thread cutting Tap & Die Set NC/NF	4		4	0.600
111	Tool Trolley with tools for Machine Room	2		2	2.000
112	Tools for dismantling of retired meters	1	-	1	0.500
113	Trolly Wheels 9" Set	30		30	0.450
114	Tyre Inflating Unit (200 psi)	-	1	1	0.800
115	Universal Programmer	2		2	0.100
116	Vacuum Cleaner	3		3	0.090
117	Vacuum Pump	-	2	3	1.500
118	Vibration Pen	5		5	1.000
119	VISE with TriPort Stand	4	2	6	0.600
120	Water Sprinkler	1		1	0.200
121	Wire slings in different sizes	1		1	0.100
122	Work Shop Tools	10		10	0.250
123				-	
TOTAL					215.707

Under UFG Reduction Plan of the Company special emphasis has been placed to increase number of steel & PE network maintenance teams and the existing teams be equipped with modern tools & equipments.

The purchase of above tools will facilitate performance of duties by company employees and improve their efficiency. The worn out tools have also been proposed for replacement.

Tools have usually very short life and in SSGC the tools are depreciated in 3 years.

Besides UFG control activities Tools & Equipments are required to perform routine electrical/mechanical maintenance jobs by our services department.

Details of Compressor Stations

Table D-6.8

For FY 2021 - 23

S/N	Description	NAEC Rating	Admission Units	Replacement Units	Total No. of Units	Projected Cost (Rs in million)	New Assessment	Cost Benefit Analysis	Remarks for variations
1	Requirement of Solar T-60 Gas Turbine Engine including F&T and F&S Installation charges		1	-	1	390,000	Solar T-60 Gas Turbine Engine S/Ns 235071 is installed at Solar unit B at HQ-2 Dair Compressor station and has completed approx 18000 Hrs. As per operating hrs history turbine engine still near by recommended overhaul Hrs i.e 30 K in FY 2022-23, therefore Turbine Engine is procured for overhaul		
2	Air Compressor Air Flow 320 ACFM for Dry Gas Seal and Instrumentation of Solar Compressors at HQ-2		1	-	1	30,000	See Solar T-60 Compressor are installed at HQ-2 Compressor Station to manage approx 2250 MMCFD (Q-2) to north. The recycled Air Compressor will be utilize as stand by source in case of failure of installed Air Compressor which use for Dry Gas Seal buffer system and instrument air and is very critical for the whole system.		
3	New Compressor at Shikarpur to decommissioned for QPA (Deflower)				-	219,032			
4	05 New Compressor Unit at Sibs CR				-	2,207,000			
5	Relinquishment of existing 06 Compressor units & extension of facility at Nawabshah HQ-2 Dair (Deflower)	Rating				74,000			
6	Additional 12 Units of Compressor at HQ-2 for BLNG	Rating			-	2,207,000			
7					-				
8					-				
	TOTAL		2	-	2	5,417,000			

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SUI SOUTHERN GAS COMPANY LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT

For FY 2022-23

INDEX - SECTION - E

Details 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

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SUI SOUTHERN GAS COMPANY LIMITED
Transmission and Distribution Cost - Detailed

Table A-0-3

Rs. Million

S.No.	Description	Underpinning ERR Petition FY 2021-22 (17 08-2023)	Review Petition ERR FY 2021-22	ERR Petition FY 2022-23	Variance of Pet 2022-23 over OGRA Det. 2021-23	Notes on Reasons for change
1.a	Salaries wages and benefits	16,991.00	16,991.00	17,157.00		1
1.b	Third party/casual workers existing and reclassification from repair & maintenance		5,332.00			
1.c	Incremental impact of third party/casual workers Indigenes		5,178.00			
1.d	HR Cost allocation to Rs. %G	(3,089.00)	(3,089.00)			
2	Sub-total HR cost	13,902.00	19,002.00	17,157.00	3,745.00	
2	Gas Internally Consumed					
	Compressor			349.52		
	Distribution Office use			36.93		
	Distribution			4.16		
	Office - IHP			115.75		
	Sub-total:	546.42	746.75	896.23	333.87	2
3	Spares and Spares Consumed					
	Transformers & Compressors and Cables		173.53	150.38		
	Distribution		821.52	478.51		
	Head Office		135.71	73.91		
	Freight & handling		92.51	11.93		
	Printing & Stationery		21.10	75.05		
	Gas Bills Printing Charges		88.30	145.30		
	Sub-total:	598.00	1,403.60	926.74	126.74	3
4	Material & labour used on	38.00	33.40	26.00	(16.00)	
	Customer's installation					
5	Electricity	290.00	291.00	296.00	(10.00)	
6	Rent, Rates and Taxes					
	Rent	158.11	158.12	163.40	(2.12)	
	Others	112.54	111.54	106.19	(5.75)	
	Sub-total:	270.67	270.66	271.49	(8.48)	
7	Traveling					
	Local travelling					
	Excursion	22.51	22.51	13.80	(8.77)	
	Scholarships	4.75	4.75	1.50	(3.25)	
	Freight travelling	0.77	0.77	2.00	1.23	
	Other travelling	93.22	95.23	55.81	(3.41)	
	Sub-total:	121.25	123.26	72.71	(48.55)	
8	Insurance & Royalty	171.66	171.95	177.24	(4.99)	
9.a	Postage and revenue stamps		78.05	21.94		
9.b	Bill Delivery through Contractors		127.07	132.70		
9	Subtotal postage & bill delivery	134.00	145.07	154.64	29.61	4
10	Repair and Maintenance, software development					
	Repair/repair	214.01	215.01	203.11	(11.92)	
	Construction	548.71	548.71	1,948.59	1,399.88	
	Consumables	2.90	1.90	1.50	(1.40)	
	Other	540.54	550.81	461.83	(88.98)	
	Software Maintenance	220.00	220.00	267.10	47.10	
	Sub-total:	1,525.16	1,536.43	2,882.13	1,345.62	5
11	Legal and Professional charges	140.00	140.00	157.87	17.87	6
	Minor Rating by Consumers	150.00	145.00	155.00	5.00	7
	Outstanding Asset Commission	5.00	5.00	-	(5.00)	
	Sub-total:	295.00	290.00	312.87	17.87	

SUI SOUTHERN GAS COMPANY LIMITED
Transmission and Distribution Cost - Detailed

Rs. Million

S.No.	Description	Determination ERR Petition FY 2021-22 (1 st Oct-2021)	Review Petition ERR FY 2021-22	ERR Petition FY 2022-23	Variance of Per 2022-23 over CMAA 2021-22	Notes on Reason for change
12	Security Expense					
	Transactions	491.28	491.28	507.19	15.91	
	Out of office	242.32	242.32	280.11	37.79	
	Head Office and others	48.38	48.38	22.44	(25.94)	
	Sub total:	782.00	782.00	809.64	27.64	8
13	CGRA Fee	283.39	283.39	80.00	(198.39)	
14	Advertisement	123.00	123.00	115.00	(8.00)	
15	Gas Bills Collection Charges	245.88	245.16	245.30	0.14	9
16	Other					
	Commencement	14.00	14.00	61.00	47.00	
	Other miscellaneous	155.00	100.00	118.91	(36.91)	
	Sub total:	169.00	114.00	179.91	65.91	10
	Grand T&D Cost	29,472.23	27,192.86	24,677.38	(5,265.06)	
17	IRR Credit Allocation to LNG	3,084.00	3,684.00		(6,000.00)	11
	Revenue Expenditure relating to LNG - expenses	193.06	183.80	210.53	26.73	
18	PLNG - Gas Conserved Interolls	-	3,888.15			
	Sub-total project cost	3,772.05	7,160.05	340.52	(5,031.49)	
	Grand T&D Cost	27,684.11	29,982.91	24,917.90	(5,234.57)	
19	Loss: Recoveries (Adjustments)					
	Amount allocated to CGS (b/c)	1,834.12	1,834.12	1,834.12	-	
	Other	4.21	4.21	4.21	-	
	Installation Cost recovered	28.21	28.21	28.21	-	
	Cost allocated to Water Point	3.50	3.50	3.50	-	
	Recovery/Reimbursement of Service Cost from SNGR	135.71	135.71	135.71	-	
	Installation Cost Recovered from Customer (b/c)	2.45	2.45	2.45	-	
	Recovery of service cost (gas transmission)	281.86	281.86	281.86	-	
	Miscellaneous (net)	36.13	36.13	36.13	-	
	Sub total:	2,535.38	2,535.38	2,535.38	-	
	Net T&D Cost	26,530.93	27,417.53	22,594.50	(2,233.97)	

NOTES ON REASONS FOR VARIATIONS FROM OGRA DETERMINATION ON ERR FOR FY 2021-22 DATED 17.08.2021

		Rs. Million
1	HR Cost: Please see details in basis & assumptions.	
2	Gas Internally Consumed: Increased mainly due to decrease in volumes & increase in rates/rates:	
	-Volume variance	205.99
	-Rate variance	133.81
	Total	339.80
3	Stores, Spares & Supplies Consumed: The Authority deducted an amount of Rs. 610 million i.e. 4.3% from the estimates of the company Rs. 1,408 in ERR FY 2021-22, beside this expensive LFCI control activities as well as projected increase in consumption & prices of chemical products/fuel and lubricants plus general inflation are the main contributor increase in this account.	
4	Postage and Bill delivery by contractors: Increase is due to expected enhanced activity and rates by courier services. Previous tender for bill delivery by contractors was awarded in Oct-2018 for two years and extended upto Dec-2021 on previous average rates. These rates are expected to increase by more than 20% after passage of 3 ½ years. The scope of work has also been enhanced in delivery of Disconnection Notices, FTR Notices, OSD/ PUCI letters, GJDC Settlement Bills, Non-Customer Claims.	
5	Repair & Maintenance: In FY 2021-22 the Company included the "Contract labour" in the head of HR Cost on the probability that the Apex Courts would order that the contract work force be converted to permanent workforce. As this decision is pending to date, therefore the contract labour has been made a part of Repair & Maintenance.	
6	Legal & Professional Charges: The main reason for increase under this head is mainly due to increase in litigation against the company the following reasons for expected increase in litigation : 1. Hundreds of Consumers have challenged GJDC Judgment before the High Court. 2. Sacked Employees are also filing cases before High Courts and Supreme Court after the declaration of Sacked Employees Act 2019 to be ultra vires to the Constitution. 3. The Company would be constrained to shut gas supply to industries and CNG stations. Being limited for their business, these consumers would institute litigation and may also go for Damages purportedly caused by this shut down, and resultantly, the Company would be helpless but to face litigation in Courts upto the Supreme Court. Due to increasing inflation, most of our external counsels have refused to accept the briefs on present fee structure, resultantly the increase in professional fee is eminent.	
7	Meter Reading by contractors: Previous tender for meter reading by contractors was awarded in July-2018 for two years and extended for one-year upto Dec-21 on previous average rates. These rates are expected to increase by more than 20% after passage of 3 ½ years. The scope of work has also been enhanced i.e. snapshots, instant surveys against N.I. and Incentives against identifying irregularities in order to increase work quality & reading accuracies to control LFG.	
8	Security Expenses: Increase due to revised agreements with security agencies to cope up with security needs at important locations/ CNG installations.	
9	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.	
10	Others: Due to increase in Director Fees from Rs. 22 M to Rs. 35 M, as actual expenditure of around Rs. 35 M is expected in current year. Pre-inspection for New connection by contractor Rs. 3 M. Other inflationary impact. Enhanced budget for communication is required to deploy additional network links for Disaster Recovery facility, SMS and launch of other value added services/ Whats App communication services through which SSCG's customers will receive monthly billing, lodge complaints, get status of new gas connections, inquiry of their bills etc.	

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SUI SOUTHERN GAS COMPANY LIMITED
GIC : COMPRESSOR STATIONS

Table # E-2

Particulars	Determination ERR Petition FY 2021-22 (17-08-2021)	Review Petition ERR FY 2021-22	PETITION ERR FY 2022-23
Compressor Station A (Location) SKP			
Compressor Running hours		10,900.0	9,000.0
Volume of gas handled /compressed (MMCF)		47,000.0	32,800.0
Volume of gas handled /compressed (MMBTU)		44,932.0	31,556.0
GIC (MMCF)		470.0	300.0
GIC (BBTU)		411.1	288.0
GIC (Rs. in million)		277.8	222.5
Compressor Station C (Location) HQ-3			
Compressor Running hours		17,500.0	17,500.0
Volume of gas handled /compressed (MMCF)		85,000.0	85,000.0
Volume of gas handled /compressed (MMBTU)		82,450.0	82,450.0
GIC (MMCF)		550.0	550.0
GIC (BBTU)		533.5	533.5
GIC (Rs. in million)		360.5	412.2
Compressor Station D (Location) SIBI			
Compressor Running hours		1,100.0	1,200.0
Volume of gas handled /compressed (MMCF)		1,000.0	6,000.0
Volume of gas handled /compressed (BBTU)		3,840.0	5,760.0
GIC (MMCF)		12.0	20.0
GIC (BBTU)		11.5	19.2
GIC (Rs. in million)		7.8	14.8
Total Compressors (All Locations)			
Compressor Running hours		29,500.0	27,700.0
Volume of gas handled /compressed (MMCF)		136,000.0	123,500.0
Volume of gas handled /compressed (BBTU)		131,222.0	119,556.0
GIC (MMCF)	730	992.000	870.000
GIC (BBTU)	704	956.100	840.700
GIC (Rs. in million)	449.71	646.956	649.525

Table # E-2

SUI SOUTHERN GAS COMPANY LIMITED **STORES AND SPARES CONSUMED**

Table # E-4

Rs. Million

Particulars	FY 2021-22	FY 2021-22	FY 2022-23	Variance of Pet 2022-23 over OGRA Det. 2021-22	
	Determination ERR	Review Petition ERR	Petition	Rs. Million	%age
Transmission	327.67	327.67	190.38	(137.29)	(42)
Distribution	823.61	823.61	478.53	(345.08)	(42)
Head Office	127.21	127.21	73.91	(53.30)	(42)
Sub total	1278.49	1278.49	742.82	(535.67)	(42)
Freight & Handling	29.51	20.51	11.92	(8.59)	(42)
Sub total	1299.00	1299.00	754.74	(544.26)	(42)
Printing & Stationery	23.00	23.00	25.00	2.00	9
Gas Bills Printing Charges	86.00	86.00	145.00	59.00	69
Total	1408.00	1408.00	924.74	(483.26)	35
Less en-block reduction by OGRA	610.00				
Allowed	798.00	1408.00	924.739	126.74	(1.281)

SUI SOUTHERN GAS COMPANY LIMITED

Electricity

Table # E-5

Rs. Million

Particulars	FY 2021-22	FY 2021-22	FY 2022-23	Variance of Per 2022-23 over OCRA Det. 2021-22	
	Determination ERR	Review Petition ERR	Petition	Rs. Million	%age
Transmission & Compression	43.92	43.92	42.41	(1.51)	(3)
Distribution					
1 Karachi Region	104.76	104.76	101.15	(3.61)	(3)
2 Sindh Interior Region	53.66	53.66	51.81	(1.85)	(3)
3 Balochistan Region	10.48	10.48	10.12	(0.36)	(3)
Sub total	168.90	168.90	163.08	(5.82)	(3)
Head Office	77.18	77.18	74.52	(2.66)	(3)
Grand total	290.00	290.00	280.00	(10.00)	(3)

SUI SOUTHERN GAS COMPANY LIMITED

TRAVELLING EXPENSES

Table # E-6
Rs. Million

Particulars	FY 2021-22		FY 2022-23	Variance of Pet 2022-23 over OGRA Del. 2021- 22	
	OGRA Determination ERR	Review Petition KRR		Rs. Million	%age
Transmission	27.75	27.75	23.60	(4.15)	(15)
Distribution	19.10	19.10	16.24	(2.86)	(15)
Head Office	74.41	74.41	63.27	(11.14)	(15)
Total	121.26	121.26	103.11	(18.15)	(15)

SUI SOUTHERN GAS COMPANY LIMITED

INSURANCE

Table # E-7
Rs. Million

Particulars	FY 2021-22	FY 2021-22	FY 2022-23	Variance of Pet 2022-23 over OGRA Det. 2021-22
	OGRA Determination ERR	Review Petition ERR	Petition	
Third Party insurance	0.43	0.43	0.41	
Fire risk/Damage to property	53.37	53.37	51.48	
Motor Vehicle Insurance	36.18	36.18	34.90	
Other Insurance including Consequential loss	47.98	41.98	40.49	
Total	131.96	131.96	127.29	

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SUI SOUTHERN GAS COMPANY LIMITED
PROFESSIONAL CHARGES

Table # F-8
Rs. Million

Particulars	FY 2021-22		FY 2022-23		Variation of Pet 2022-23 over OGRA Dec 2021-22	
	OGRA Determination ERR	Review Petition ERR	Petition		Rs. Million	%age
Professional charges	48.01	48.01		62.39	14.38	30
Total	48.01	48.01		62.39	14.38	

SUI SOUTHERN GAS COMPANY LIMITED
SECURITY EXPENSE

Table # E-9
Rs. Million

Particulars	FY 2021-22	FY 2021-22	FY 2022-23	Variance of Pet 2022-23 over OGRA Dec. 2021-22	
				Petition	Rs. Million %age
	OGRA Determination ERR	Review Petition ERR			
Transmission	491.26	491.26	543.19	51.94	11
Distribution	255.37	255.37	282.37	27.00	11
Head Office & Others	38.38	38.38	42.44	4.06	11
Total	785.00	785.01	868.00	83.00	11

**SUI SOUTHERN GAS COMPANY LIMITED
ADVERTISEMENTS**

Table # E-10

Rs. Million

Particulars	FY 2021-22	FY 2021-22	FY 2022-23	Variation between FY 2022-23 & 2021-22	
	OGRA Determination ERR	Review Petition ERR	Petition	Rs. Million	%age
1 Compulsory Advertisement			111.00		
2 Voluntary Advertisement			7.00		
Total	123.00	123.00	118.00	(5.00)	(4)



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**Sui Southern Gas
Company Limited**

Ref : RA/21/23
Dated : 9 March 2022

Dr. Abdul Basit Qureshi
The Registrar
Oil & Gas Regulatory Authority
ZTE Plaza near PIA Booking Office
Blue Area
Islamabad.

Subject: PETITION FOR ESTIMATED REVENUE REQUIREMENT (ERR) FY 2022-23 – TRANSMISSION, DISTRIBUTION & SALES FUNCTIONS

Dear Sir,

This is with reference to your letter OGRA-6(2)-2(4)/2021-ERR dated: 7 March 2022 relating to segregated costs & revenue in terms of activities viz: transmission, distribution and sale.

Enclosed are the relevant annexures and tables of ERR Petition FY 2022-23 with required break-up. The Estimated Revenue Requirement submitted vide Company's letter RA/21/23 dated: 14 February 2022 remains same.

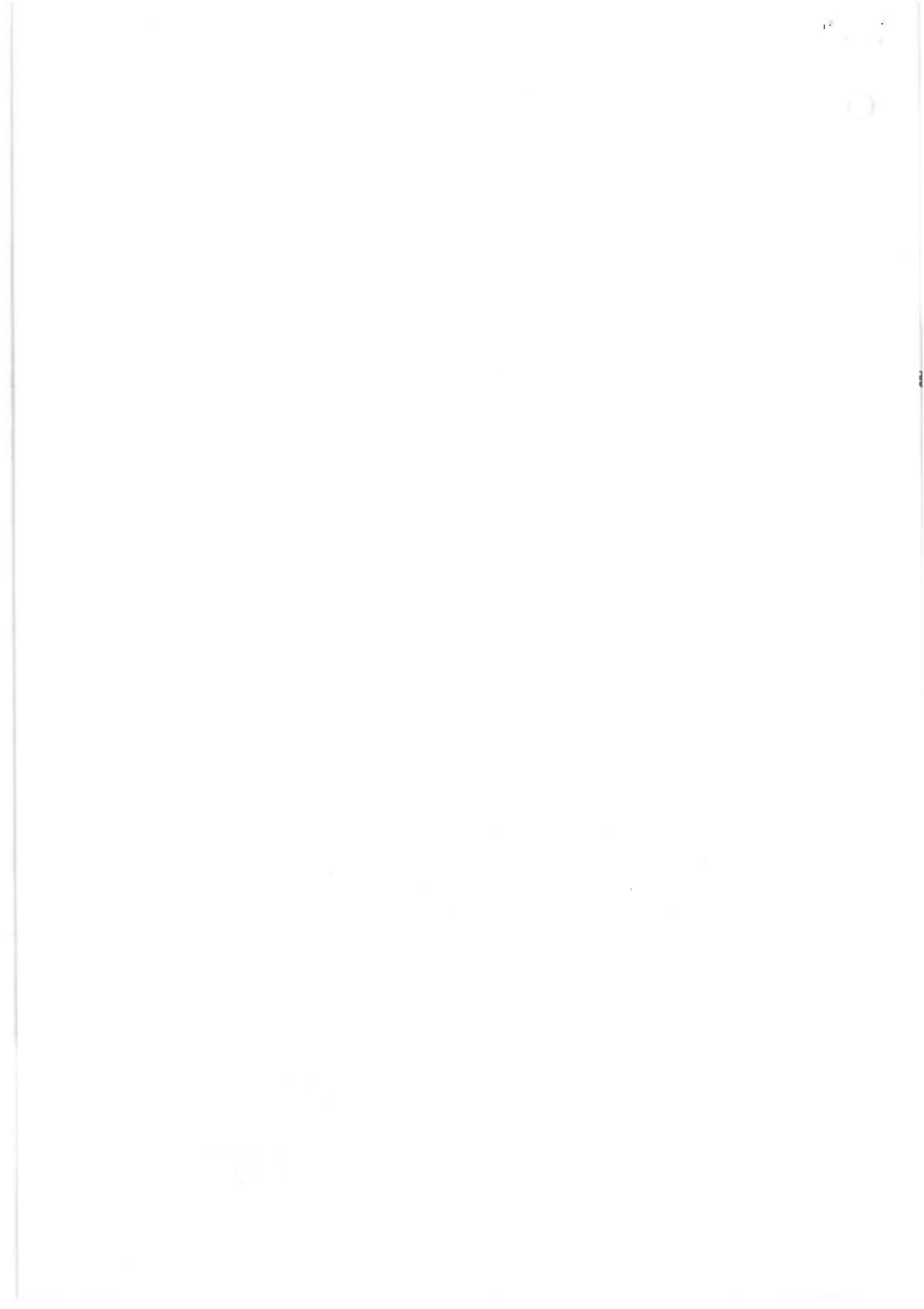
SEN (Gas) - Mr. 3-3-22
HOA (Pi) - 4-3-22
11/3/22

Yours sincerely,

[Signature]
Muhammad Asad Mustafa
Deputy General Manager (RA)
(For Managing Director)

cc: **Ms. Misbah Yaqub, Senior Executive Director (Gas) OGRA**
Ms. Tayaba Ahsan, Joint executive Director/HoD Finance-I OGRA





SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT SHOWING REVENUE REQUIREMENT

Annexure - A.1

date: 09-03-2022

S.No.	DESCRIPTION	Determination ERR FY 2021-22 (1-17-08-2021)	Review Petition FY 2021-22	Related to LNG Customers	Related to LNG Customers	Petition ERR FY 2022-23	Related to Non-LNG Customers	Related to Transmission & Sales	Related to Distribution & Sales	Related to LNG Customers	Variance over Determination FY 2021-22	S.No.
		a	b	c	d	e	f	g	h	i	j	
1	Sales volume (MMCF)	325,289	390,882	320,640	713,241	155,152	288,816	-	288,816	66,136	(76,473)	1
2	Energy Sale in MMMBTU	318,783	388,248	314,911	713,337	353,024	283,040	-	283,040	69,985	(35,723)	2
3	Energy delivered in MMMBTU				508,694					467,092		3
4	OPERATING REVENUES				(Required in addition)							4
5	Gas Sales Revenue net of GDS	248,615	431,962	245,593	86,369	362,821	197,926	-	197,926	164,895	(50,687)	5
6	Other revenues	5,094	12,201	5,094	14,197	12,285	4,611	282	4,329	7,674	(483)	6
7	Total operating revenues	253,708	451,163	250,687	200,476	375,106	202,537	282	202,255	172,569	(51,170)	7
8												8
9	OPERATING EXPENSES											9
10	Cost of gas sold	234,360	448,798	243,911	204,887	435,319	262,598	-	262,598	171,772	29,238	10
11	Adjustment for UFG above benchmark	(12,303)	-	(12,303)	12,320	-	(15,021)	-	(15,021)	15,021	(2,718)	11
12	Transmission and distribution cost	16,533	22,583	19,711	3,272	21,698	21,458	4,479	16,978	241	4,925	12
13	Gas Internally Consumed	546	4,637	749	3,888	886	886	-	-	-	340	13
14	Depreciation	7,009	8,726	7,317	1,409	9,823	8,244	1,212	7,012	1,577	1,215	14
15	Contribution to WPPF / Other charges	134	2,587	1,746	841	3,854	2,836	18	2,818	1,818	2,702	15
16	Return to SSGCL (ROA)	6,487	11,704	7,029	4,675	12,756	7,962	3,017	4,944	4,774	1,475	16
17	Total operating expenses	252,766	494,435	268,142	231,293	484,316	289,962	9,673	280,349	192,353	37,197	17
18												18
19	(Surplus)/Shortfall in Gas Operations	(972)	48,272	17,455	30,817	108,209	87,425	9,331	78,094	21,784	88,367	19
20	Subsidy for LNG A-1 Mix Project's over & above gas operation	942	344	944	-	1,373	1,373	-	1,373	-	431	20
21	Total Shortfall in Revenue Requirement	-	243,990	213,172	30,817	110,592	88,798	9,331	79,467	21,784	88,798	21

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SCT SOUTHERN GAS COMPANY LIMITED
STATEMENT SHOWING REVENUE REQUIREMENT

Annexure - A.ii

date 09.03.2022

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S.No.	DESCRIPTION	Determination ERG FY 2021-22		Review Petition FY 2021-22		Petition FY 2022-23				S.No.
		Related to Natural Gas Customers	Related to Natural Gas Customers	Related to LNG Customers	Related to Natural Gas Customers	Related to Transmission	Related to Distribution & Sale	Related to LNG Customers	Variance over Determination FY 2021-22	
		a	b		c			d - e	%	
1	Sales volume (MMCF)	325,289	320,640	70,241	288,816	-	288,816	66,336	(36.473)	1
2	Energy Sale in MMMBTU	318,783	314,911	73,337	283,040	-	283,040	69,985	(35.743)	2
3	Energy delivered in MMMBTU									3
4	<u>OPERATING REVENUES</u>			509,694				462,090		4
5	Gas Sales Revenue net of GAS									5
6	Other revenues	15.98	16.18	27.68	16.29	1.00	15.29	16.61	0.31	6
7	Total operating revenues	195.86	196.06	393.33	715.58	1.00	714.58	373.45	(80.28)	7
8	<u>OPERATING EXPENSES</u>									8
9	Cost of gas sold									9
10	Adjustment for (IFG above benchmark	735.17	774.54	401.98	851.31	-	931.31	371.62	196.14	10
11	Transmission and distribution cost	(38.59)	(39.12)	24.17	(53.07)	-	(53.07)	32.51	(14.48)	11
12	Gas Internally Consumed	51.86	62.59	6.42	75.81	13.83	59.99	0.52	23.95	12
13	Depreciation	1.71	2.38	7.63	3.13	3.73	-	-	1.42	13
14	Contribution to WPPF / Other charges	21.99	23.23	2.76	29.13	4.28	24.85	3.41	7.14	14
15	Return to SSCGL (ROA)	0.42	5.54	1.65	10.02	0.06	9.96	2.20	9.60	15
16	Total operating expenses	792.97	851.48	453.79	1,024.46	10.66	17.47	10.33	3.78	16
17	(Surplus/Shortfall) in Gas Operations									17
18	Subsidy for LPG Air Mix Projects over & above gas operation	(2.96)	55.43	60.40	308.88	12.97	275.91	47.14	311.83	18
19	Total Shortfall in Revenue Requirement	2.96	3.06	-	4.85	-	4.85	-	1.93	19
20										20
21		-	58.42	60.46	311.73	33.97	280.76	47.14	313.73	21

SUI SOUTHERN GAS COMPANY LIMITED **WORKING FOR TARIFF ADJUSTMENT REQUIRED**

Rs Million

S.No.	DESCRIPTION	Period FY 2022-23	Related to Natural Gas Customers	Related to Transmission	Related to Distribution & Sale	Related to LNG Customers	Table No.	S.No.
1	1. Gas Sales volume in MMSCFD	155,152	288,816		288,816	66,236	B-2.1	1
2	Energy Sale in MMMBTU	333,034	283,040		283,040	69,685	B-2.2	2
3	Energy delivered in MMMBTU							3
4	2. A. Net operating revenue					-162,593		4
5	Gas Sales - net of general sales tax	162,821,133	197,926,313		197,926,313	164,895,129	B-2.3	5
6	Less: Gas Development surcharge - outstanding	-	-		-	-	B-2.4	6
7	Net Sales	162,821,133	197,926,313		197,926,313	164,895,129		7
8	RLNG Transportation Income	7,610,199				7,610,199	B-8	8
9	Net Sale of Condensate	(2,977)	(1,977)	(2,977)	-	-	B-9.1	9
10	Motor rentals	1,752,921	1,726,064		1,716,064	26,857	B-9.2	10
11	Amortization of deferred credit	620,529	587,698		583,968	36,823	B-9.3	11
12	Late payment Surcharge	1,561,000	1,051,000		1,031,100	-	B-9.4	12
13	Mater. manufacturing plant profit	148,699	145,699		148,699	-	B-9.5	13
14	Other income	3,089,795	1,634,146	389,383	1,244,759	1,375,651	B-9.6	14
15	Sub-total	14,289,257	5,150,727	756,466	4,754,320	5,049,350		15
16	Total operating income "A"	377,021,690	303,077,040	756,466	202,680,632	172,944,479		16
17	2. B. Less operating expenses							17
18	Cost of gas	451,919,387	260,597,667		265,597,660	171,721,726	B-1.1	18
19	Transmission and distribution cost	22,584,302	22,311,987	5,365,613	16,978,354	240,915	B-1.2	19
20	Depreciation	9,849,425	8,244,303	1,211,834	7,037,469	1,605,122	B-1.3	20
21	Financial charges	5,005,773	1,206,689	583,665	2,422,914	1,795,164	B-1.4	21
22	Other charges exceeding W.P.F.F.	1,886,033	2,856,032	30,550	2,855,483	-	B-1.5	22
23	Total operating expenses "B"	470,645,120	300,278,592	7,291,712	292,886,880	175,366,528		23
24	C. Profit/(Loss) before W.P.F.F. (A-B)	(93,623,429)	(97,201,552)	(6,535,246)	(90,206,247)	(41,421,049)		24
25	D. Less: Workers Profit Participation Fund	(1,463,348)	(4,511,247)	(466,340)	(3,904,707)	(71,094)		25
26	E. Add: Non-admissible expenditures	(91,181,089)	(92,830,305)	(6,326,765)	(86,501,540)	(1,350,754)		26
27	E. Add: Financial charges of banks / others	5,005,773	1,206,689	583,665	2,422,914	1,795,164	B-1.1	27
28	Non-operating / discontinued expenses							28
29	Adjustment for URG about Pakistan k	-	-		-	-	B-4.1	29
30	URG adjustments on RLNG income handled basis (neg to	-	15,021,145		15,021,145	(15,021,145)	B-4.2	30
31	Nominal interest income on IAS 19 provision	-	-		-	-		31
32	Depreciation - ECTPL	27,856	-		-	27,856		32
33	Other expenses	50,500	50,500	17,220	33,280	-	B-4.3	33
34	F. (i) sub-total	5,083,665	18,278,094	755,915	17,452,178	(13,194,424)		34
35	E. (ii) Less: Non operating other income	76,467	76,467	18,674	57,793	-	B-5.1	35
36	Interest income from K&SU & WAPDA	292,478	302,478	70,926	228,552	-	B-5.2	36
37	Interest income & others from SNGPL	135,732	-	-	-	135,732	B-5.3	37
38	Interest on short term loan to subsidiary	60,591	60,591	11,936	48,655	-	B-5.4	38
39	Income for receivable against asset contribution	27,095	27,095	6,622	20,473	-	B-5.5	39
40	Margin for LSA Management	1,339,919	-	-	-	1,339,919	B-5.6	40
41	Motor manufacturing plant profit/loss	74,350	74,350	-	-	74,350	B-5.7	41
42	Net Sale of Condensate	(1,489)	(1,489)	-	-	(1,489)	B-5.8	42
43	G. (i) sub-total	1,915,485	526,832	114,128	426,705	1,575,551		43
44	Net non-admissible expenditures F. (ii) - F. (i)	2,168,182	17,751,262	641,787	17,025,472	(14,570,576)		44
45	F. Operating profit/(Loss) (G - D + E)	(9,012,904)	(75,362,045)	(5,440,978)	(69,245,067)	(15,920,859)		45
46	3. Return required on Net Assets:							46
47	Net assets at beginning	74,171,345	45,966,795	11,741,617	54,255,179	26,724,530	B-12.1	47
48	Net assets at ending	101,602,134	70,563,613	24,707,267	45,396,376	31,627,441	B-12.2	48
49	Average Net Fixed Assets (ia)	87,911,239	58,265,204	17,974,442	40,055,777	29,081,026		49
50	Less: Motor Manufacturing Plant and LFG Aft Mix Project Assets (FDYPS)							50
51	Net assets at beginning	3,501,564	2,587,906	1,707	2,584,199	513,598	B-12.3	51
52	Net assets at ending	3,467,751	2,582,762	1,707	2,578,375	885,702	B-12.4	52
53	Average Net Fixed Assets (ib)	3,484,644	2,584,654	1,707	2,581,287	899,650		53
54	Average Net Fixed Assets related to Gas Activity (B)	84,426,595	55,680,550	17,972,735	37,474,496	28,981,375		54
55	Deferred Credit at beginning	7,560,926	1,325,529		7,325,529	434,995	B-9.1	55
56	Deferred Credit at ending	9,423,515	8,736,402		8,726,952	696,614	B-9.2	56
57	Average Deferred Credit (a)	8,592,021	4,030,965	-	8,026,240	565,804		57
58	Average Net Fixed Assets after Deferred Credit (10.1+10.2)	75,834,574	47,419,009	17,970,735	29,148,274	28,425,565		58
59	Return required on Net Assets	15,799%	16,799%	16,799%	16,799%	16,799%		59
60	Amount of return required (2.0 + 3.5)	15,755,685	7,981,652	3,017,286	4,564,265	4,774,321		60
61	Additional Revenue Required for Gas Operation							61
62	Shortfall/(Surplus) over return required (2.0 - 3.5)	102,745,887	83,053,606	8,864,354	74,189,432	70,649,191		62
63	Cross-up for W.P.F.F. @ 5% of 1-4	198,209,355	87,424,942	9,230,864	78,094,139	21,784,472		63
64	Increase in Prescribed Price - (Rs per MMBTU)	309.35	308.86		275.91	311.27		64
65	Subsidy for LFG Aft Mix Project over & above Gas Operation	1,371,077	1,371,077		1,371,077	-	B-12.5	65
66	Total Shortfall/(Surplus) in Revenue Requirement	110,582,432	88,798,820	9,330,804	75,467,215	21,784,412		66
67	Shortfall in Rs per MMBTU for Natural Gas Customers (w.e.f. 1 July 2022)		313.73		280.95			67
68	Shortfall in Rs per MMBTU for RLNG Customers (w.e.f. 1 July 2022)					47.14		68

SUI SOUTHERN GAS COMPANY LIMITED
PROJECTED PROFIT AND LOSS ACCOUNT

Tab A-2
1991-92 to 2002

Table A-2
Date: 05-05-2002

S.No	DESCRIPTION	Declaration BY 2001-22 1st-17-09-2021	Review Before FY 2021-22	Related to Natural Gas Customers	Related to LNG Customers	Position ERP FY 2021-22	Related to Natural Gas Customers	Related to Transmission	Related to Distribution & Sale	Related to LNG Customers	S.No
1	Sales volume in MACE	325,289	392,882	320,540	70,241	335,152	288,816	-	288,816	58,336	1
2	Energy Sale in MMBTU	318,763	788,248	314,911	73,317	353,024	283,049	-	283,049	69,985	2
3											3
4	Gas sales net of sales tax	231,249,706	413,794,999	227,426,139	96,368,861	362,821,433	197,026,313		197,026,313	164,895,170	4
5	Gas development surcharge - at existing	(17,363,578)	(18,166,975)	(18,166,975)	-	-	-		-	-	5
6	Loss: Price increase / (decrease)	-	242,989,609	213,772,230	36,817,379	110,582,432	88,798,029	9,136,804	79,457,216	21,784,412	6
7	Gas development surcharge after price adjustment	(17,362,578)	(252,156,583)	(231,339,206)	(36,817,379)	(110,582,432)	(88,798,029)	(9,136,804)	(79,457,216)	(21,784,412)	7
8	Gas development surcharge - deferred	-	194,773,722	194,773,722	-	-	-		-	-	8
9	Cross Subsidy for Air Mix LPG Operation over & above Gas Operation	942,095	943,917	943,917	-	-	-		1,173,077	-	9
10	Gas development surcharge after adjustments	(16,421,484)	(66,238,963)	(35,621,506)	(36,817,379)	(109,200,355)	(87,424,943)	(9,136,804)	(78,194,139)	(21,784,412)	10
11	Net sales	247,671,180	480,213,945	305,047,935	217,186,219	472,030,988	283,351,256	9,338,804	278,020,452	186,879,532	11
12	Cost of Gas	224,160,146	448,798,111	245,919,911	704,897,120	455,319,387	261,597,660	-	261,597,660	171,721,726	12
13	Gross Margin	13,511,034	31,435,834	15,128,024	12,289,120	36,711,601	21,753,595	9,338,804	12,422,791	14,957,806	13
14	Transmission and distribution costs	17,078,934	27,619,520	20,459,468	7,160,452	22,584,502	22,343,967	5,365,033	24,978,534	240,515	14
15	Depreciation	7,008,933	8,753,949	7,356,868	1,437,972	9,819,425	8,244,703	1,211,834	7,032,469	1,685,132	15
16		24,087,870	35,373,469	27,816,336	8,597,124	32,403,927	30,588,290	6,577,467	24,010,923	1,845,637	16
17	Minor repairs	1,671,711	1,692,920	1,671,711	21,279	1,752,921	1,726,060	-	1,726,060	26,837	17
18	Recognition of income against deferred credit	595,697	595,697	595,697	-	620,520	583,698	-	583,698	26,837	18
19	Operating profit / (loss)	48,509,417	(2,649,408)	(6,372,214)	3,723,205	6,650,915	(6,524,933)	2,753,337	(9,278,170)	13,175,848	19
20	One-time adjustment surcharge	1,025,657	1,025,657	1,025,657	-	1,061,161	1,063,105	-	1,061,161	-	20
21	Minor manufacturing plant profit	59,219	59,219	59,219	-	148,699	148,699	-	148,699	-	21
22	Air Mix LPG project profit	159,237	61,059	161,059	-	160,884	160,884	-	160,884	-	22
23	RLNG Transportation Income	-	24,085,699	-	14,085,659	7,610,193	-	-	-	7,610,193	23
24	Net Sale of Condensate	(9,235)	(9,235)	(9,235)	-	(2,977)	(2,977)	(2,977)	-	-	24
25	Other income	2,097,851	3,236,596	2,097,851	1,238,743	3,009,795	2,634,144	399,383	1,334,739	1,375,651	25
26	Other charges excluding (W P P F)	(5,176,689)	16,006,987	(3,027,663)	19,087,649	18,638,416	(3,521,283)	3,143,715	(5,672,128)	22,161,699	26
27	Workers Profit Participation Fund (W P P F)	2,835,000	1,855,000	1,855,000	-	2,886,035	2,886,035	80,550	2,853,483	-	27
28	Financial charges	(7,021,089)	13,313,531	(4,892,663)	18,206,199	14,734,256	(6,409,316)	3,119,193	(9,528,511)	21,143,572	28
29	Profit / (loss) before taxation	3,921,265	6,138,283	3,921,265	2,118,522	5,063,773	3,208,600	783,652	2,422,914	1,799,164	29
30		(10,953,952)	7,173,746	(8,313,926)	(5,987,671)	9,128,486	(9,615,925)	2,339,500	(11,951,425)	19,344,407	30

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SUI SOUTHERN GAS COMPANY LIMITED
TRANSMISSION AND DISTRIBUTION COST

Rupees Million

Rupees (in Lakhs)								
S.No.	DESCRIPTION	Determination ERR FY 2021-22 dt: 11-08-2021	Review ERR FY 2021-22	Petition ERR FY 2021-22	Transmission	Distribution & Sale	Variance for S/D/Dec. over DFRM	S.No.
		(a)		(b)			(b-a)	%
1.a	Salaries, wages, and benefits	16,991,000	16,991,300	17,187,000	3,007,695	14,179,305	196,000	1.2
1.b	Third party casual workers relating asset reclassification from repair & maintenance		1,322,000	-	-	-	-	
1.c	Incremental impact of third party casual workers Induction		1,178,000	-	-	-	-	
1.d	HR Cost allocation to RLNG	(3,089,000)	(3,089,000)	-	-	-	3,089,000	(100.0)
1	Sub-total HR cost	(3,907,000)	16,402,300	17,187,000	3,007,695	14,179,305	3,285,000	21.8
2	Gas consumed internally	346,419	748,753	886,226	886,226	-	339,807	62.2
3	Other T&D Cost							
4.a	Printing & Stationery			25,000	4,899	20,101	25,000	100.0
4.b	Gas Bill Printing Charges			145,000	-	145,000	145,000	100.0
4.c	Stores & spares consumed			754,739	215,440	539,299	754,739	200.0
4	Sub-total stores, spares, stationary and gas bill printing	798,000	1,408,000	924,739	220,339	704,000	126,739	15.9
5	Material used on consumers installations	76,000	76,000	20,000	-	20,000	(16,000)	(24.4)
6	Electricity	290,000	290,000	280,000	61,363	188,637	(10,000)	(7.4)
7	Rent, rate & taxes	279,667	279,667	271,150	31,212	239,979	(5,177)	(2.6)
8	Traveling	121,254	121,254	103,105	65,815	37,296	(74,449)	(15.0)
9	Insurance & royalty	131,962	131,952	127,285	62,209	63,075	(1,677)	(1.3)
10.a	Postage & revenue stamps			21,549	4,827	17,113	21,549	100.0
10.b	Bill delivery through contractor			132,700	-	132,700	132,700	100.0
10	Sub-total postage & bill delivery	124,000	145,000	154,640	4,827	149,813	30,640	24.7
11.a	Repairs & Maintenance	1,147,495	1,147,495	2,645,015	492,539	2,152,469	1,497,520	130.2
11.b	Software development & maintenance	226,000	226,000	267,100	96,905	170,195	47,100	21.4
12	Sub-total repairs & maintenance	1,367,495	1,367,495	2,912,115	589,434	2,322,681	1,544,020	115.0
12	Legal & Professional Charges	140,000	140,000	137,890	28,334	1,9236	17,570	12.8
13	License Fee to OGRA	285,374	285,374	87,000	21,263	63,737	(196,174)	(69.3)
14	Motor fueling by contractors	99,000	146,200	155,000	-	155,000	56,000	56.6
15	Collecting agent commission	3,000	3,000	-	-	-	(1,000)	(100.0)
16	Security expenses	785,000	785,000	868,000	545,896	322,905	83,000	10.6
17	Gas bills collection charges	245,157	245,157	245,301	-	245,301	0.144	0.1
18	Advertisement	124,000	175,000	118,000	28,772	89,228	(5,000)	(4.1)
19	Common meter	34,000	34,000	61,000	19,991	31,009	27,000	79.4
20	Others	109,000	109,000	118,998	25,630	93,278	15,998	
21	Sub-total other T&D cost	4,963,909	5,042,109	5,604,155	1,754,883	4,849,272	1,640,246	33.0
22	GROSS T&D COST	19,412,328	22,792,862	24,677,381	5,648,504	19,028,877	5,265,052	27.1
23	Loss, Recoveries / Allocations	2,051,534	2,051,534	2,077,457	27,133	2,050,223	25,623	1.3
24	Net Transmission & Distribution Cost	17,360,795	20,741,328	22,600,024	5,621,630	16,978,354	5,349,279	30.2
25	POLICY CHANGE PURSUANT TO APPLICATION OF IFRIC4							
26	Less: Recovery of service charges transportation 1	281,860	281,860	216,137	756,037	-	(21,823)	(9.2)
27	Net Transmission & Distribution Cost NG	17,078,934	20,459,468	22,383,987	5,365,633	16,978,354	5,265,022	30.6
28	Add: Project Cost RLNG							
29	HR Cost allocation to RLNG	1,089,000	1,089,000	-	-	-	(3,089,000)	(100.0)
30	Revenue expenditure relating to RLNG	184,000	157,000	240,515	-	240,515	37,515	21.1
31	RLNG - Gas Consumed Internally	-	3,888,052	-	-	-	-	100.0
32	Sub-total Project Cost RLNG	3,272,000	7,160,052	240,515	-	240,515	(3,031,485)	(92.6)
33	GRAND TOTAL	20,350,934	27,619,520	22,884,502	5,365,633	17,218,369	7,333,567	11.0

Note: 1. Treatment pursuant to IFRIC-4

+ PFR Round mark

Segregation of common costs/ revenues is based on pre-audited actual revenue expenditure for F.Y 2020-21.

SUI SOUTHERN GAS COMPANY LIMITED
SCHEDULE OF DEPRECIATION

Table # H-6
dated: 09-03-2022
Rugosa Millen

S.No	DESCRIPTION	Determination ERR FY 2021-22 dt: 17.08.2021	Review ERR FY 2021-22	Petition ERR FY 2022-23	Petition ERR FY 2022-23			S.No	
					Transmission	Distribution & Sale	RLNC		
1	Building		75,768	90,068	22,235	67,833	-	1	
2	Roads, pavements and related infrastructures		39,934	39,921	9,757	30,165	-	2	
3	Gas transmission pipelines		514,189	512,722	512,722	-	784,934	3	
4	Compressors		233,584	348,305	348,903	-	592,932	4	
5	Plant and Machinery		263,321	289,974	82,171	207,803	17,431	5	
6	Gas distribution systems		5,448,956	5,846,042	-	5,846,042	49,199	6	
7	Office Furniture, equipment & computer		220,933	260,858	67,062	193,795	0,167	7	
8	Computer Software (Intangible)		127,874	295,732	72,277	223,455	-	8	
9	LPG Air Mix Projects		90,620	98,528	-	98,528	-	9	
10	Telecommunication system		62,589	83,988	20,520	63,465	-	10	
11	Appliances, loose tools and equipments		161,498	142,280	36,362	105,918	6,542	11	
12	Vehicles		239,172	358,191	82,927	275,264	26,195	12	
13	Construction equipment		105,442	53,339	13,036	40,303	133,188	13	
14	SCADA		76,583	72,917	17,821	55,096	0,535	14	
15			7,600,405	8,493,463	1,285,799	7,207,666	1,635,122	15	
16	Less: Meter Manufacturing Plant		29,660	36,366		36,366		16	
17	LPG Air Mix Projects		90,620	98,528		98,528		17	
18	Depreciation charge to capital projects		102,328	53,339	13,036	40,303	27,896	18	
19			222,608	188,237	13,036	175,197	27,896	19	
20			7,377,797	8,305,232	1,272,763	7,032,469	1,577,226	20	
21	POLICY CHANGE PURSUANT TO APPLICATION OF IFRIC4							21	
22	Less: & Recovery of service cost (gas transportation)		60,929	60,929	60,929	-		22	
23	Depreciation for NGI		7,008,935	7,316,868	8,244,303	1,211,834	7,032,469	1,577,226	23
24	Depreciation for RLNC		1,409,176	1,409,176	1,577,226				24

Note:- * Treatment pursuant to IFRIC-1.

+ Breakup not provided in Determination.

Segregation of certain costal revenues is based on un-audited actual revenue expenditure for FY 2020-21.

SUI SOUTHERN GAS COMPANY LIMITED
OTHER INCOME

Rupees Million

S.No.	DESCRIPTION	Determination ERR FY 2021-22	Position ERR FY 2022-23	Variance Less (+) Over Over DERR FY 2021-22	RLNG	Transmission	Distribution & Sales	S.No.
1	Interest on term deposits	54,696	28,850	(25,844)	(47.3)	7,051	21,799	1
2	Interest income on loan to related party	156,382	60,991	(95,391)	(61.0)	14,906	46,085	2
3	Interest income from WAPDA	399,071	302,478	(96,593)	(24.2)	73,926	228,552	3
4	Interest income on late payment of gas bills from SNGPL	1,274,715	1,135,870	(138,841)	(10.9)	244,434	755,704	4
5	Rental income from SSGC LPG Pvt. Ltd	0,770	1,220	0,450	58.4	0,298	0,922	5
6	Income for receivable against asset contribution	32,036	27,096	(4,930)	(15.4)	6,622	20,474	6
7	Amortization of Government grant	46,008	-	(46,008)	(100.0)	-	-	7
8	Recoveries from consumers	86,000	84,349	(1,651)	(1.9)	20,615	63,734	8
9	Profit on sale of fixed assets	5,642	-	(5,642)	(100.0)	-	-	9
10	Dividend Income	11,298	4,100	(7,198)	(63.7)	1,002	3,098	10
11	Liquidated damages recovered	74,598	84,475	9,877	13.2	20,646	63,829	11
12	Income from sales of tender documents	5,837	5,335	(5,002)	(8.6)	1,304	4,031	12
13	Income from net investment in finance lease	26,547	5,112	(21,435)	(80.7)	1,249	3,863	13
14	Income from Pipeline Construction	30,000	-	(30,000)	(100.0)	-	-	14
15	Income against LNG service agreement	1,103,013	1,239,919	136,906	12.4	-	-	15
16	Others	30,000	30,000	-	-	7,332	22,668	16
17	TOTAL	3,336,597	3,009,785	(326,802)	(9.8)	399,365	1,234,759	17
18	NON-OPERATING INCOME							18
19	Profit/Interest on term deposits	54,694	28,850	(25,844)	(47.3)	7,051	21,799	19
20	Interest income on loan to related party	156,382	60,991	(95,391)	(61.0)	14,906	46,085	20
21	Interest income from WAPDA	399,071	302,478	(96,593)	(24.2)	73,926	228,552	21
22	Interest income & others recovery from SNGPL	135,732	135,732	-	-	135,732	-	22
23	Interest income from SSGC LPG Pvt. Ltd	0,770	1,220	0,450	58.4	0,298	0,922	23
24	Income for receivable against asset contribution	32,028	27,096	(4,930)	(15.4)	6,622	20,474	24
25	Amortization of Government grant	46,008	-	(46,008)	(100.0)	-	-	25
26	Dividend Income	11,298	4,100	(7,198)	(63.7)	1,002	3,098	26
27	Liquidated damages recovered - 50%	37,259	42,237	4,938	13.2	10,323	31,935	27
28	Income from Pipeline Construction - 50%	15,000	-	(15,000)	(100.0)	-	-	28
29	Margin for LSA Management (RLNG)	1,103,013	1,239,919	136,906	12.4	-	-	29
30	Total	1,981,293	1,842,824	(138,669)	(7.0)	114,128	352,844	30
31	NET OF NON-OPERATING INCOME	1,345,304	1,167,171	(178,133)	(13.2)	285,237	881,915	31

Note: Segregation of common costs/ revenues is based on un-audited actual revenue expenditure for FY 2020-21.

SOUTHERN GAS COMPANY LIMITED
OTHER CHARGES

S No	DESCRIPTION	Determination PRR FY 2021-22 01-07-2021	Review Period FY 2021-22	Related to Natural Gas Customers	Related to LNG Customers	Contribution Customers	Related to Transmission Customers	Related to Distribution & S&P	Related to LNG Customers	S No
1	Profit before tax & other charges	(5,176,689)	15,009,987	(3,097,663)	10,047,649	15,538,416	(1,544,285)	(6,673,028)	22,161,659	1
2	Less: Air Mfr. LPG projects profit	159,237	161,359	61,039	-	160,584	-	-	-	2
3	Profit before tax & other charges	(5,335,926)	15,171,346	(3,158,702)	10,047,649	15,699,000	(1,544,285)	(6,673,028)	22,161,659	3
4	Less:									4
5	Finance charges	2,921,263	6,119,785	3,621,263	2,218,522	5,305,773	3,205,609	783,595	2,422,914	5
6	Sports club expenses	120,000	120,000	120,000	-	75,000	75,000	18,350	56,650	6
7	Corporate social responsibility	94,000	98,000	58,000	-	25,000	25,000	6,110	7,890	7
8	Provision against impaired debts and other receivables	1,612,000	1,612,000	1,612,000	-	2,761,093	2,761,093	2,561,001	-	8
9	Other & sundries fees	25,000	25,000	25,000	-	25,000	25,000	6,110	7,890	9
10	Sub-total operating profit	3,776,263	7,994,755	5,776,263	2,218,522	7,891,905	6,092,642	812,245	5,278,397	10
11	Less:	(11,112,189)	7,854,140	(8,479,985)	16,325,127	10,585,905	(9,775,609)	2,335,500	(12,132,106)	11
12	Admin. Other & sundries fees	-	841,456	-	841,456	1,018,127	-	-	1,018,127	12
13	Total Other Charges	1,855,000	3,555,000	1,855,000	-	2,885,033	2,885,033	30,550	2,855,483	13
14	Less: Non-admissible	1,855,000	2,696,456	1,855,000	841,456	3,904,191	2,885,033	30,550	2,855,483	14
15	Sports club expenses	(60,000)	(60,000)	(60,000)	-	(37,500)	(37,500)	(9,165)	(38,435)	15
16	Corporate social responsibility	(49,000)	(49,000)	(49,000)	-	(12,500)	(12,500)	(3,055)	(9,445)	16
17	Provision against impaired debts and other receivables	(1,612,000)	-	-	-	-	-	-	-	17
18	Sub-total non-admissible	(1,721,000)	(1,099,000)	(1,099,000)	-	(50,000)	(50,000)	(12,220)	(37,780)	18
19	Net Other Charges	134,000	2,597,456	1,746,000	841,456	5,854,191	2,835,033	18,330	2,817,203	19
20									1,018,127	20

Note:- Restricted as per determination.

SUI SOUTHERN GAS COMPANY LIMITED
ADDITION TO FIXED AND INTANGIBLE ASSETS

S.No.	DESCRIPTION	Reclassification FY 2023-22 dc-17-08-2023	Review ERR FY 2021-22	Petition ERR FY 2022-23	Rupees Million			Petition ERR FY 2022-23		
					Variance	S No.	Transmission	Installation & Sale	RLNG	S.No.
1	Buildings	69,000	69,000	639,539	570,539	1	165,318	474,221	-	1
2	Gas Transmission Pipeline	-	-	10,981,000	10,981,000	2	10,981,000	-	1,695,000	2
3	Compressors	335,000	335,000	2,426,000	2,091,000	3	2,426,000	-	2,691,000	3
4	Plant and machinery	126,000	126,000	1,174,250	1,048,250	4	684,973	469,277	48,050	4
5	Gas distribution system and related facilities & equipments	4,264,000	9,138,000	15,140,525	10,876,525	5	-	15,140,525	619,093	5
6	Furniture, equipment including computers & allied equipments	140,000	284,501	440,175	312,175	6	234,987	305,188	1,670	6
7	Computer Software (Intangible)	33,000	521,300	447,640	414,640	7	309,403	338,237	-	7
8	LPG Air Mix Projects	9,780	9,780	105,610	95,830	8	-	105,610	-	8
9	Telecommunication system	35,000	70,250	39,582	4,582	9	9,674	29,908	-	9
10	App's, tools & equmt.	28,000	284,400	212,457	184,457	10	64,704	147,752	3,250	10
11	Vehicles	252,000	408,740	953,535	701,535	11	375,390	778,145	-	11
12	Construction equipment & vehicles	45,000	45,000	-	(45,000)	12	-	-	-	12
13	SCADA	22,000	44,750	-	(22,000)	13	-	-	-	13
14	TOTAL NG	5,348,780	11,336,721	32,560,313	27,211,533	14	14,751,449	17,808,863	5,058,063	14
15	TOTAL RLNG	243,000	243,000	5,058,063	4,815,063	15	-	-	-	15
16	GRAND TOTAL	5,591,780	11,579,721	37,618,376	32,026,596	16	14,751,449	17,808,863	5,058,063	16

Note:- Segregation of common costs/revenues is based on un-audited actual revenue expenditure for FY 2020-21.

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

Rs Million

S.No	DESCRIPTION	Period 2022-23 Related to Natural Gas Customers			Period 2022-23 Related to RLNG Customers			Transmission			Distribution & Sale			S.No	
		Opening Balances	Addition	Closing Balances	Opening Balances	Addition	Closing Balances	Opening Balances	Addition	Closing Balances	Opening Balances	Addition	Closing Balances		
1	OVERALL						34.44%							1	
2	CONST	287,665,332	35,362,314	186,235,584	36,742,329	9,658,051	41,798,372	36,049,419	14,751,449	30,840,869		111,375,932	17,848,863	79,344,875	2
3	WDV	301,664,587	8,493,463	136,142,651	8,565,720	1,605,173	10,170,862	30,187,403	1,263,709	26,133,672		36,257,782	7,667,466	84,038,430	3
4	WDV	6,048,792		36,033,843	28,171,540		31,577,493	11,201,217		34,707,262		34,755,154		22,256,376	4
5	LPG Air Mix Assets														5
6	CONST	1,564,535	105,610	3,430,385								3,024,373	105,610	3,430,185	6
7	WDV	867,573	98,528	366,701								563,613	98,528	966,401	7
8	WDV	2,556,462		2,465,584								2,455,902		2,583,265	8
9	Power Manufacturing Plant														9
10	CONST	796,350	76,555	720,314								719,766	10,555	730,314	10
11	WDV	6,33,165	76,266	541,537								505,153	36,366	341,532	11
12	WDV	254,394		229,793								252,594		328,792	12
13	Assets related to LBJF (Condensate)														13
14	CONST	57,709		57,709								57,709	-	-	14
15	WDV	50,283		50,386								50,386	-	-	15
16	WDV	7,414		7,414								7,414	-	-	16
17	FRTPU														17
18	CONST				1,115,844										18
19	WDV				262,286	27,876									19
20	WDV				913,506										20
21	Manufacturing Plant														21
22	CONST	4,142,133		4,234,208			1,115,844	57,795		57,795		4,384,334		5,299,454	22
23	WDV	1,423,204		2,554,138			236,112	50,385		50,385		1,472,434		1,301,752	23
24	WDV	2718,910		2,706,141			386,792	7,414		7,414		2,711,192		2,693,757	24
25	Fixed assets related to gas activities														25
26	CONST	343,523,248		177,467,386			40,662,528	26,031,626		40,783,008		107,491,628		125,184,326	26
27	WDV	1,00,251,223		134,075,914			9,442,240	24,707,413		26,083,216		13,447,946		82,229,717	27
28	WDV	43,272,856		63,553,462			59,241,158	11,334,207		24,699,833		32,043,581		47,567,626	28
29	OVERALL														29
30	Net assets at beginning			45,766,795			28,174,250			11,243,617				34,755,154	30
31	Net assets at ending			70,063,245			21,627,491			24,207,287				49,368,326	31
32	Average net fixed assets			1,06,600,438			22,892,040			35,548,884				50,111,254	32
33	Net assets at beginning			58,000,219			22,951,320			17,574,432				40,055,773	33
34	Net assets at ending			2,247,905			911,258			1,701				2,583,192	34
35	Net assets at beginning			2,542,082			883,162			3,703				2,578,373	35
36	Net assets at ending			5,169,638			5,739,951			7,414				5,162,374	36
37	Average net fixed assets			2,547,994			899,550			3,703				3,581,283	37
38	Net assets at beginning			43,408,409			25,241,951			11,237,516				32,170,985	38
39	Net assets at ending			67,481,563			52,241,736			24,205,585				12,718,002	39
40	Average net fixed assets related to gas			119,090,420			38,032,740			35,981,476				14,246,185	40
41	Net assets at beginning			35,192,222			28,021,779			17,679,735				37,474,493	41
42	Net assets at ending														42
43	Net assets at beginning														43
44	Net assets at ending														44

Major - Reconciliation of Condensed Cash Revenue is based on un-audited annual revenue statement for FY 2020-21

Deferred credit at beginning

Deferred credit at ending

Average Deferred Credit (a)

Net assets at beginning

Net assets at ending

Return on Assets

Table # B-12.2
dated - 08-03-2021

198

SUT SOUTHERN GAS COMPANY LIMITED
TARIFF CALCULATION SHEET
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FY 2022-23

199

Particulars	Petition FY 2022-23			
	Related to Natural Gas Customers	Related to Transmission	Related to Distribution & Sale	Related to LNG Customers
1 Gas Sales				
1A MMCF	288,816	-	288,816	66,336
1B BBTU	283,040	-	283,040	69,985
1C Average Calorific Value per MMCF	980		980	1,055
1D Energy delivered in MMBTU Rs Million				462,090
2 Net Operating Revenues				
Net Gas Sales at current Prescribed Price	197,926.313	-	197,926.313	164,895.120
RLNG Transportation Income	-	-	-	7,610.199
Net Sale of Condensate	(1,489)	(2,977)	1,489	-
Meter rentals	1,726.064	-	1,726.064	26.857
Amortization of deferred credit	583.698	-	583.698	36.822
Late payment Surcharge	1,061.100	-	1,061.100	-
Meter manufacturing plant profit/ (loss)	74.350	-	74.350	-
Other income	1,167.171	285.257	881.915	-
2A Total Income	202,537.207	282.280	202,254.927	172,568.999
Less: Operating Expenses				
Cost of gas	263,597.660		263,597.660	171,721.726
Adjustment in cost of gas for UFG above allowable limit	-	-	-	-
UFG adjustments on RLNG volume handled basis (ring fenced)	(15,021.485)	-	(15,021.485)	15,021.485
Transmission and distribution cost	21,457.761	4,479.407	16,978.354	240.515
Gas Internally Consumed	886.226	886.226	-	-
Depreciation	8,244.303	1,211.834	7,032.469	1,577.226
Other charges including WPPF	2,836.053	18.330	2,817.703	1,018.127
2B Total Expenses	282,000.499	6,595.797	275,404.701	189,579.079
2C Return available (2A - 2B)	(79,463.292)	(6,313.518)	(73,149.774)	(17,010.080)
3 Required Return on Net Fixed Assets				
Net Operating Fixed Assets at Beginning	36,085.560	11,237.910	24,845.450	26,825.955
Net Operating Fixed Assets at End	58,754.658	21,703.560	34,051.098	30,045.174
3A	94,838.019	35,941.470	58,896.549	56,871.129
3B Average Net Operating Fixed Assets (3A / 2)	47,419.009	17,970.735	29,448.274	28,435.565
3C Required Return on Net Assets - In Percentage	16.79%	16.79%	16.79%	16.79%
3D Required Return (3B x 3C)	7,961.652	3,017.286	4,944.365	4,774.331
4 Shortfall / (Surplus) in Gas Operation [3D-2C]	87,424.943	9,330.804	78,094.140	21,784.412
6 Subsidy for LPG Air Mix Projects over & above Gas Operation	1,373.077	-	1,373.077	-
8 Total Shortfall in Revenue Requirement	88,798.020	9,330.804	79,467.216	21,784.412
Rupees per MMBTU (w.e.f. 1 July 2021)	313.73		280.76	47.14

SUI SOUTHERN GAS COMPANY LIMITED
PROFIT AND LOSS ACCOUNT

Table # C-2
dated: 09-03-2021

dated: 09-03-2021

200

Description	Determination ERR FY 2021-22 dt: 17-08-2021	Review Petition FY 2021-22	Related to Natural Gas	Related to LNG	Petition ERR FY 2022-23	Related to Natural Gas Customers	Related to Transmission	Related to Distribution & Sale	Related to LNG Customers
Sales									
MMCF BOTTU Projects Million									
325,289	360,882	320,640	70,241		355,152	288,816	-	288,816	65,336
318,783	388,248	314,913	73,337		353,024	283,040	-	283,040	69,985
Return required on net assets									
Net assets at the beginning	40,137	68,483	40,026	28,427	62,909	36,083	11,238	24,845	26,826
Net assets at the end	38,023	70,964	43,703	27,261	88,800	58,755	22,702	34,051	30,065
Average net operating fixed assets	39,079	69,724	41,865	27,844	75,855	47,419	17,971	29,448	28,450
Required return	6,487	11,704	7,029	4,675	12,736	7,962	3,017	4,944	4,774
Gas sales net of sales tax	231,250	413,795	227,426	185,359	362,821	197,926	-	197,926	164,895
Less: Gas Development Surcharge after adjustments	(16,421)	177,531	177,551	-	1,173	2,373	-	1,373	-
A: current tariff	247,671	236,244	40,875	185,369	361,448	196,555	-	196,555	164,895
Tariff Adjustment Required	-	243,990	213,172	30,817	110,582	88,798	9,331	79,467	21,784
Net gas sales	247,671	480,234	263,048	217,186	472,031	285,357	9,331	276,020	186,680
Other Revenue									
R/LNG Transportation Income	-	14,186	-	14,086	7,050	-	-	-	7,050
Net Sale of Condensate	(9)	(9)	(9)	-	(3)	(3)	(3)	-	-
Miscellaneous	1,072	1,693	1,672	21	1,753	1,726	-	1,726	27
Recognition of income against deferred credit	596	596	596	-	627	584	-	584	37
Late payment surcharge	1,026	1,026	1,026	-	1,061	1,061	-	1,061	-
Miscellaneous manufacturing plant profit	59	59	59	-	149	149	-	149	-
Air Mix LPG projects profit	59	161	161	-	161	161	-	161	-
Other income	2,098	3,337	2,098	1,229	3,040	1,634	399	1,235	1,376
Other Revenue	5,600	20,948	5,602	15,346	14,361	5,311	396	4,915	9,051
Revenues	253,271	501,182	268,650	232,532	486,392	290,668	9,727	280,935	195,729
Expenses									
Cost of gas	234,360	448,798	243,911	204,887	435,319	263,598	-	263,598	171,722
Transmission and distribution costs	17,079	27,620	20,459	7,160	22,585	22,344	5,366	16,978	341
Depreciation	7,009	8,754	7,317	3,537	9,849	8,244	1,212	7,032	1,605
Other charges excluding (W.P.F.)	1,855	1,855	1,855	-	2,886	2,886	31	2,855	-
Workers Profit Participation Fund (W.P.F.)	-	841	-	841	-	-	-	-	1,118
Operating Profit / (Loss)	260,303	487,868	273,342	214,326	471,657	297,072	5,608	290,264	172,585
Less: Borrowing cost	(7,032)	13,314	(4,693)	18,206	14,734	(6,409)	3,119	(9,291)	21,144
Profit / (loss) before tax	3,921	6,140	3,921	2,219	5,026	3,207	784	2,225	1,799
	(10,953)	7,174	(8,814)	15,988	9,728	(9,616)	2,335	(11,951)	19,344

