



**Sui Southern Gas
Company Limited**

Ref : RA/21/22

Dated : 13 January 2021

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

Part-I

Subject: PETITION FOR ESTIMATED REVENUE REQUIREMENT (ERR) FY 2021-22

Dear Sir,

Please refer to your letters # OGRA-6(2)-2(4)/2020-ERR dated: 8 January 2021, wherein the Authority has kindly permitted the Company to file the subject petition before 15 January 2021. SSGC's Estimated Revenue Requirement (ERR) Petition for FY 2021-22 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 2021-22 has been worked at a shortfall of Rs. 36,757 million or Rs. 114.39 per MMBTU for indigenous gas business and a shortfall of Rs. 12,973 million or Rs. 33.67 per MMBTU for RLNG business which may be allowed in SSGC prescribed price effective 1st July 2021. The instant Petition may further be amended based on the Final Revenue Requirement Petition / Determination for FY 2020-21.

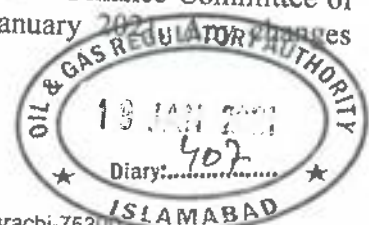
Detailed write-up on the main items are explained in Annexure-D and Table D-1 of the instant petition.

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 # 24315580 dated: 23 December 2020.

Kindly note that the subject ERR Petition is under consideration of the Finance Committee of Directors (FCD) for approval in its meeting scheduled on 18 January 2021.



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consequent upon the approval of FCD / BoD of the Company will be submitted to the Authority as an amendment to the instant petition if required.

We would therefore request the Authority to approve an increase of Rs 36,757 million or Rs. 114.39 per MMBTU in indigenous gas business and Rs. 12,973 million or Rs. 33.67 per MMBTU in the revenue requirement of RLNG business with effect from 1st July 2021 in SSGC's tariff for FY 2021-22.

Yours sincerely,


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

S862315



HI KHAN STAMP VENDOR

L No 173, C-109

S No 1555 DATE 18 DEC 2020

ISSUED TO WITH ADDRESS

THROUGH WITH ADDRESS

PURPOSE

VALUE RS

MUHAMMAD SHAHZAD
B.Com, LL.B

ADVOCATE

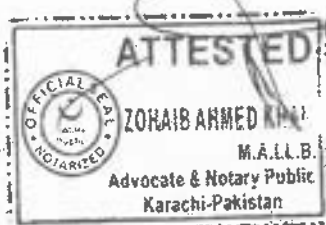
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(RUPEES ONE HUNDRED ONE)



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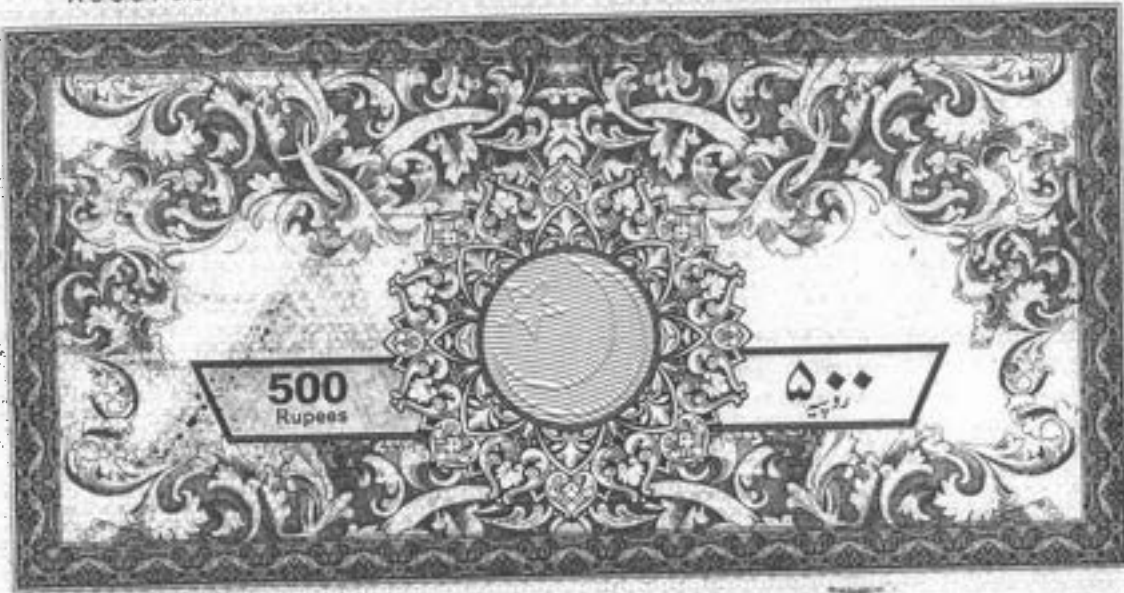
I, Muhammad Asad Mustafa s/o Muhammad Mustafa Azad, Deputy General Manager (Regulatory Affairs), Muslim Adult bearing CNIC No. 42101-1824689-1 do hereby solemnly affirm that the information based on data received from various departments of the Company and Initialed Accounts certified by Statutory Auditors of the Company and contained in SSGC's Final Revenue Requirement Petition for FY 2018-19 is true and correct to the best of my knowledge and belief.



(Muhammad Asad Mustafa)
Dy. General Manager (RA)
Sui Southern Gas Company Ltd.

18 JAN 2021

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MEMORIAL STAMP VENDOR
 100 Shop No 1, Glamour Arcade
 Sector 11-I, North Karachi

250 DATE 13 JUL 2020
 Sent to With Address
 Through With Address
 Purpose
 Stamp Vendor's Signature
 For Use Free Will & Divorce Deed

(RUPEES FIVE HUNDRED ONLY)



SUB POWER OF ATTORNEY

Know all men by these presents that SUI SOUTHERN GAS COMPANY LIMITED, a Public Limited Company, incorporated under the Companies Ordinance, 1984, and having its registered office at ST.4/B, Block-14, Sir Shah Muhammad Suleman Road, Gulshan-e-Iqbal, Karachi, acting through its authorized representative, the Acting Managing Director Mr. Muhammad Amin Rajput authorized vide General Power of Attorney Registered No. 101, Book No. IV, dated 29.06.2020 with Sub-Registrar III, Gulshan-e-Iqbal Town Karachi and Digital scanning unit Karachi, BOR Sindh RD101/SRO:43/Doc Type:42 dated 08 July 2020, do hereby nominate, constitute, appoint and ordain Mr. Muhammad Asad Mustafa s/o Muhammad Mustafa Azad, holding CNIC No. 42101-1824689-1, Deputy General Manager (Regulatory Affairs) of the Company (hereinafter called "the Attorney") with effect from 11 May 2020 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 undertakings 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.



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

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

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

M. Armin Rajput
(EXECUTANT)

Muhammad Armin Rajput
Acting Managing Director
Sui Southern Gas Company Ltd.

WITNESSES:

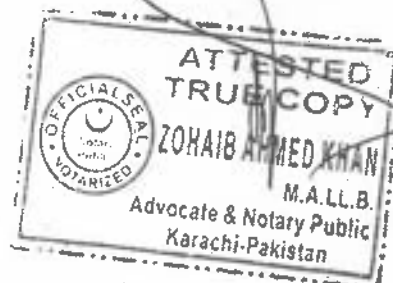
Taqar Ahmed Umar
1. TAQAR AHMED UMAR
CNIC No. 41304-5217621-3

M. Haris Baber
2. M. HARIS BABER
CNIC No. 42201-0216371-7



Abdul Talib Moosa Memon
ABDUL TALIB MOOSA MEMON
JUSTICE OF PEACE
Empowered U/S 22-A & B, CR.P.C.
As Magistrate Govt. of Sindh
KARACHI-PAKISTAN

15 JUL 2020



18 JAN 2021

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SUI SOUTHERN GAS COMPANY LIMITED
PETITION FOR
ESTIMATED REVENUE REQUIREMENT
FY 2021-22

LIST OF CONTENTS

DESCRIPTION	ANNEXURE / SECTION
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Basis & Assumptions for Motion for Review Petition	Annexure-D
Working For Tariff Adjustment Required & Financial Statements	Section-A
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OGRA Prescribed Formats / Other Details	Section-C
Projects Details / Addition of Fixed Assets	Section-D
Details of Transmission and Distribution Cost	Section-E

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: ST-4/B, Block 14, Sir Shah Suleman Road, Gulshan-e-Iqbal, Karachi - 75300. PABX Tel: 021-99231500 Fax: 021-99231550																																													
3	The grounds giving rise to petitioner's interest forming the basis of the petition:	The instant petition is filed to meet the requirement of section 8(1) of OGRA Ordinance 2002 read with Rule 4(2) of Natural Gas Tariff Rules 2002. The grounds of the petition forming basis of the price adjustment are annexed to the petition.																																													
4	Number & details of License:	Licence for Transmission, Distribution and Sale of Natural Gas Granted to Sui Southern Gas Company Limited # NG-001/2003.																																													
5	State, in a concise manner, the grounds and facts forming the basis of the petition and the relief or determination sought from the Authority.	Our tariff working for FY 2021-22 reflects that an upward adjustment of Rs 114.39 per MMBTU in SSGC's prescribed price w.e.f. 1st July 2021 is required to adjust the shortfall in Co's revenues in gas operation as per licence condition # 5.2, prescribing 17.43% ROA and subsidy for LPG Air Mix Projects as per GoP directives. <table border="1"> <thead> <tr> <th colspan="3">Rupees per MMBTU</th> </tr> <tr> <th colspan="3">Yearly Average</th> </tr> <tr> <th>Determination ERR FY 2020-21 dt: 14-07-2020</th> <th>Petition ERR FY 2021-22</th> <th>Variance Inc. / (Dec.)</th> </tr> </thead> <tbody> <tr> <td>OPERATING REVENUES</td> <td>770.64</td> <td>695.86 (74.78)</td> </tr> <tr> <td>OPERATING EXPENSES</td> <td></td> <td></td> </tr> <tr> <td>Cost of gas sold</td> <td>604.01</td> <td>697.59 93.58</td> </tr> <tr> <td>Adjustment for UFG above benchmark</td> <td>(52.85)</td> <td>(20.07) 32.78</td> </tr> <tr> <td>Other expenses</td> <td>74.79</td> <td>129.77 54.98</td> </tr> <tr> <td></td> <td>625.95</td> <td>807.29 181.34</td> </tr> <tr> <td>(Surplus)/Shortfall in Revenue Requirement in Gas Operation</td> <td>(144.69)</td> <td>111.43 256.12</td> </tr> <tr> <td>Subsidy for LPG Air Mix Projects over & above Gas Operation</td> <td>3.00</td> <td>2.96 (0.04)</td> </tr> <tr> <td>(Surplus) in Revenue Requirement</td> <td>(141.69)</td> <td>114.39 256.08</td> </tr> <tr> <td>Shortfall Gas development surcharge receivable upto FY 2017-18</td> <td>141.69</td> <td>- (141.69)</td> </tr> <tr> <td>Shortfall in Revenue Requirement of Natural Gas Customers</td> <td>-</td> <td>114.39 114.39</td> </tr> <tr> <td>Shortfall in Revenue Requirement of RLNG Customers</td> <td>-</td> <td>33.67 33.67 -</td> </tr> </tbody> </table>	Rupees per MMBTU			Yearly Average			Determination ERR FY 2020-21 dt: 14-07-2020	Petition ERR FY 2021-22	Variance Inc. / (Dec.)	OPERATING REVENUES	770.64	695.86 (74.78)	OPERATING EXPENSES			Cost of gas sold	604.01	697.59 93.58	Adjustment for UFG above benchmark	(52.85)	(20.07) 32.78	Other expenses	74.79	129.77 54.98		625.95	807.29 181.34	(Surplus)/Shortfall in Revenue Requirement in Gas Operation	(144.69)	111.43 256.12	Subsidy for LPG Air Mix Projects over & above Gas Operation	3.00	2.96 (0.04)	(Surplus) in Revenue Requirement	(141.69)	114.39 256.08	Shortfall Gas development surcharge receivable upto FY 2017-18	141.69	- (141.69)	Shortfall in Revenue Requirement of Natural Gas Customers	-	114.39 114.39	Shortfall in Revenue Requirement of RLNG Customers	-	33.67 33.67 -
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6	Summary of evidence giving brief particulars of the data, facts and evidence in support of the petition:	Statement showing head-wise Revenue Requirement is attached as per Annexure - A.																																													
7	List of all other petitions filed by the petitioner which are pending before the Authority at the time of the filing of this petition and which directly and significantly affect this petition, including an explanation of any material effect the grant or denial of those petitions will have on those other petitions:	1. Motion for Review Petition for FY 2017-18 dated 22 May 2020 seeking an increase of Rs 7,820 million or Rs. 21.51 per MMBTU for indigenous gas business with a request to revise SSGC's prescribed prices w.e.f. July 1, 2017 and a shortfall of Rs. 12,304 million or Rs. 42.65 per MMBTU for RLNG gas business. 2. Motion for Review Petition for FY 2020-21 dated 13 August 2020 seeking an increase of Rs 16,722 million or Rs. 46.48 per MMBTU for indigenous gas business with a request to revise SSGC's prescribed prices w.e.f. July 1, 2020 and a shortfall of Rs. 5,431 million or Rs. 11.10 per MMBTU for RLNG gas business. 3. Review Petition for FY 2020-21 dated 15 October 2020, including Motion for Review mention above serial 2 is integral part seeking an increase of Rs 28,242 million or Rs. 78.95 per MMBTU for indigenous gas business with a request to revise : prescribed prices w.e.f. July 1, 2020 and a shortfall of Rs. 5,241 million or Rs. 10.66 per MMBTU for RLNG gas business. 4. Final Revenue Requirement Petition for FY 2018-19 dated 19 October 2020, seeking an increase of Rs 88,750 million or Rs. 258.92 per MMBTU for indigenous gas business with a request to revise SSGC's prescribed prices w.e.f. July 1, 2018 and a shortfall of Rs. 21,040 million or Rs. 57.14 per MMBTU for RLNG gas business.																																													
8	To be accompanied by details of the following market data	<table border="1"> <thead> <tr> <th rowspan="2">Category</th> <th colspan="2">RLNG</th> <th colspan="2">Natural Gas</th> </tr> <tr> <th>Customer Numbers</th> <th>Energy in MMBTU</th> <th>Customer Numbers</th> <th>Energy in MMBTU</th> </tr> </thead> <tbody> <tr> <td>Domestic</td> <td>24,000</td> <td>52</td> <td>3,412,134</td> <td>109,063</td> </tr> <tr> <td>Commercial</td> <td>5,267</td> <td>1,223</td> <td>23,858</td> <td>9,493</td> </tr> <tr> <td>Industrial</td> <td>1,109</td> <td>75,518</td> <td>3,756</td> <td>202,766</td> </tr> <tr> <td></td> <td>30,377</td> <td>76,793</td> <td>3,439,748</td> <td>321,321</td> </tr> </tbody> </table>	Category	RLNG		Natural Gas		Customer Numbers	Energy in MMBTU	Customer Numbers	Energy in MMBTU	Domestic	24,000	52	3,412,134	109,063	Commercial	5,267	1,223	23,858	9,493	Industrial	1,109	75,518	3,756	202,766		30,377	76,793	3,439,748	321,321																
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	a) number and consumption details of consumers likely to be affected by the petition and,																																														
	b) if the petitioner is a licensee an estimate of the volume of natural gas to be transmitted, distributed or sold;	<table border="1"> <tbody> <tr> <td>Transmitted</td> <td>90,582</td> <td>367,737</td> <td>MMMBTU</td> </tr> <tr> <td>Distributed and Gas Sold</td> <td>76,793</td> <td>321,321</td> <td>MMMBTU</td> </tr> </tbody> </table>	Transmitted	90,582	367,737	MMMBTU	Distributed and Gas Sold	76,793	321,321	MMMBTU																																					
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	c) the petitioner's total annual peak day natural gas requirement;	2,232 MMCFD																																													
	d) the petitioner's forecast of yearly capital expenditure for five years including the year under evaluation.	As per Annexure - B																																													

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

S.No.	DESCRIPTION	Determination ERR FY 2020-21 dt:-14-07-2020	Review Petition ERR FY 2020-21	Petition ERR FY 2021-22	Variance Inc./Dec.)		S.No.
						%	
1	Sales volume (MMCF)	373,249	369,336	327,879	(45,370)	(12.2)	1
2	Energy Sale in MMBTU	359,812	357,722	321,321	(38,490)	(10.7)	2
3	(Rupees in million)						3
4	OPERATING REVENUES						4
5	Gas Sales Revenue net of GDS	270,182	265,879	218,529	(51,652)	(19.1)	5
6	Income from Sale of LPG, NGL & Condensate	1,507	1,507	(5)	(1,511)	(100.3)	6
7	Other revenues	5,596	6,169	5,067	(529)	(9.5)	7
8	Total operating revenues	277,285	273,554	223,592	(53,693)	(19.4)	8
9							9
10	OPERATING EXPENSES						10
11	Cost of gas sold	217,332	224,566	224,152	6,820	3.1	11
12	Adjustment for UFG above benchmark	(19,016)	(9,423)	(6,450)	12,566	(66.1)	12
13	Transmission and distribution cost	15,594	22,358	23,849	8,255	52.9	13
14	Depreciation	6,847	7,011	7,704	857	12.5	14
15	Contribution to WPPF / Other charges	1,244	1,243	1,350	106	8.5	15
16	Return to SSGCL (ROA)	6,893	7,079	8,794	1,901	27.6	16
17	Total operating expenses	228,894	252,833	259,399	30,505	13.3	17
18							18
19	(Surplus)/Shortfall in Gas Operations	(48,391)	(20,721)	35,807	84,198	(174.0)	19
20	Subsidy for LPG Air Mix Projects over & above gas operation	1,080	1,080	950	(130)	(12.0)	20
21	(Surplus) / Shortfall	(47,311)	(19,641)	36,757	84,069	(177.7)	21
22	Shortfall Gas development surcharge receivable upto FY 2017-18	+ 50,983	50,983	-	(50,983)	(100.0)	22
23	(Surplus) / Shortfall net of prior year	3,672	31,342	36,757	33,086	901.1	23
24	Staggering of Financial Impact on account of SHC Order	(3,672)	(3,672)	-	3,672	(100.0)	24
25	Total Shortfall in Revenue Requirement of Natural Gas Tariff	-	27,670	36,757	36,757	-	25

Note:- + Gas development surcharge receivable from GoP upto FY 2017-18 after determination of final revenue requirement for FY 2017-18, dated 23 April 2020.

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

S.No.	DESCRIPTION	Determination ERR FY 2020-21 dt:-14-07-2020	Review Petition ERR FY 2020-21	Petition ERR FY 2021-22	Variance Inc./(Dec.)		S.No.
						%	
1							1
2	Energy Sale in MMMBTU	359,812	357,722	321,321	(2,089)	(0.6)	2
3	<u>Rupees per MMMBTU</u>						3
4	<u>OPERATING REVENUES</u>						4
5	Gas Sales Revenue net of GDS	750.90	743.25	680.10	(70.80)	(9.43)	5
6	Income from Sale of LPG, NGL & Condensate	4.19	4.21	(0.01)	(4.20)	(100.24)	6
7	Other revenues	15.55	17.25	15.77	0.22	1.41	7
8	Total operating revenues	770.64	764.71	695.86	(74.78)	(9.7)	8
9							9
10	<u>OPERATING EXPENSES</u>						10
11	Cost of gas sold	604.01	627.77	697.59	93.58	15.5	11
12	Adjustment for UFG above benchmark	(52.85)	(26.34)	(20.07)	32.78	(62.0)	12
13	Transmission and distribution cost	43.34	62.50	74.22	30.88	71.3	13
14	Depreciation	19.03	19.60	23.98	4.95	26.0	14
15	Contribution to WPPF / Other charges	3.46	3.46	4.20	0.74	21.4	15
16	Return to SSGCL (ROA)	19.16	19.79	27.37	8.21	42.8	16
17	Total operating expenses	636.15	706.78	807.29	171.14	26.9	17
18							18
19	(Surplus)/Shortfall in Gas Operations	(134.49)	(57.93)	111.43	245.92	(182.9)	19
20	Subsidy for LPG Air Mix Projects over & above gas operation	3.00	3.02	2.96	(0.04)	(1.33)	20
21	(Surplus) / Shortfall	(131.49)	(54.91)	114.39	245.88	(187.0)	21
22	Shortfall Gas development surcharge receivable upto FY 2017-18	141.69	142.52	-	(141.69)	(100.00)	22
23	(Surplus) / Shortfall net of prior year	10.20	87.61	114.39	104.19	1,021.5	23
24	Staggering of Financial Impact on account of SHC Order	(10.20)	(10.26)	-	10.20	(100.00)	24
25	Total Shortfall in Revenue Requirement of Natural Gas Tariff	-	77.35	114.39	114.39	-	25

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT SHOWING REVENUE
REQUIREMENT OF RLNG CUSTOMERS
For FY 2021-22

S.No.	DESCRIPTION	Determination ERR FY 2020-21 dt:-14-07-2020	Review Petition ERR FY 2020-21	Petition ERR FY 2021-22	S.No
1	Sales volume in MMCF	26,363	28,698	73,049	1
2	Energy Sale in MMMBTU	27,246	29,484	76,793	2
3	Total RLNG Energy in MMMBTU	489,336	491,574	385,297	3
4	(Rupees in million)				4
5	OPERATING REVENUES				5
6	Gas Sales Revenue net of GDS	47,932	33,223	105,906	6
7	Recovery of LSA charges	17,538	17,538	19,510	7
8	RLNG Transportation & Other Income	7,116	9,321	9,450	8
9	Total operating revenues	72,586	60,083	134,866	9
10	OPERATING EXPENSES				10
11	Cost of gas sold	43,980	29,041	112,451	11
12	LSA Charges	17,538	17,538	19,510	12
13	UFG adjustments on RLNG volume handled basis (ring fenced)	-	9,423	6,450	13
14	Transmission and distribution cost	214	264	218	14
15	Gas consumed internally	-	1,709	2,052	15
16	Depreciation	1,595	1,595	1,467	16
17	Contribution to WPPF / Other charges	211	659	557	17
18	Return to SSGCL (ROA)	5,096	5,094	5,136	18
19	Total operating expenses	68,635	65,324	147,839	19
20	Total Shortfall in Revenue Requirement of RLNG Tariff - Rs Million	(3,951)	5,241	12,973	20
21	Total Shortfall in Revenue Requirement of RLNG Tariff - Rs per MMBTU	(8.08)	10.66	33.67	21

SUI SOUTHERN GAS COMPANY LIMITED									
FIVE YEAR CAPITAL EXPENDITURE PLAN									
Annexure-B									
S. NO.	DESCRIPTION	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	Rs million		
		Revised	ERR		Projected		FY 2020-21 to FY 2024-25	TOTAL	
1	A) TRANSMISSION NETWORK								
2	A.1) ONGOING PROJECTS								
3	12" dia x 344 Km QPL Rehabilitation and Intelligent Pigging	51,000	327,377	-	-	-		378,377	
4	Construction of Sub-merge crossings, bridges, culverts etc	-	159,351	-	-	-		159,351	
5	12" Dia x 46 KMs Pipeline from Rehman Field to Naing MVA	129,000						129,000	
6	08" Dia x 28 KMs Pipeline from Ayesha Gas Field	108,000						108,000	
7	30" dia x 125 Km Pipeline from SMS Sindh University to SMS Pakland (1st segment 125KM) (2nd phase 35 KM SMS Pakland to Malir, 3rd Phase SMS Sindh University to HQ2)	-	7,721,089					7,721,089	
8	Check Metering Facility at Shahdadpur for Gambat South Field Gas Measurement	257,000	7,130					264,130	
9	Check Metering Arrangement at Daru	18,000	-					18,000	
10	24" dia x 31 Km loopline from Kathore to Surjani - High Pressure Trans. Line	-	1,815,247	-	-	-		1,815,247	
11	Sub-Total	563,000	10,030,194	-	-	-		10,593,194	
12	A.2) RING TRANSMISSION PROJECTS								
13	42" dia x 14 Km loop between Nara - Sawan								
14	42" dia x 82 Km loop between Nawabshah - Nara								
15	42" dia x 129 Km - from Pakland to Hyderabad	179,000	233,205					412,205	
16	42" dia x 131 Km - from Hyderabad to Nawabshah								
17	24" dia x 21 Km interlink b/w Pakland to Khadeji	-							
18	Tie-in & Integ at Bin Qasim & Pakland	40,000	824,996					864,996	
19	Compression at Nawabshah / HQ2 Daur	-	206,850					206,850	
20	30" Dia x 17 KMs from CTS Bin Qasim to MVA Pakland	297,000	1,078,597					1,375,597	
21	Future extension of CTS Bin-Qasim - RLNG		426,863					426,863	
22	Miscellaneous Compressors-RLNG		771,000					771,000	
23	Sub-Total	516,000	3,541,511	-	-	-		4,057,511	
24	A.3) UNDER PLANNING PROJECTS - NORMAL								
25	SCADA System		44,750					44,750	

SUI SOUTHERN GAS COMPANY LIMITED										Annexure-B
FIVE YEAR CAPITAL EXPENDITURE PLAN										
S. NO.	DESCRIPTION	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	Rs million			
		Revised	ERR		Projected		TOTAL	FY 2020-21 to FY 2024-25		
26	16" dia. x 9 km Re Route of Kotri Barrage	-	-	2,878,000			2,878,000			
27	24" dia x 34 km loop-line between Shikarpur & Jacobabad	91,000					91,000			
28	Upgradation of SMS Thatta	-	147,943				147,943			
29	Sub-Total	91,000	192,693	2,878,000	-	-	3,161,693			
30	A.4) OTHERS-NORMAL	-	517,600				517,600			
31	Compressor Overhaul / Modification (other than RLNG)	1,886,000	2,268,632				4,154,632			
32	New Compressors	1,886,000	2,786,232	-	-	-	4,672,232			
33	Sub-Total	3,056,000	16,550,630	2,878,000	-	-	22,484,630			
34	Total - Transmission (A)									
35	B) DISTRIBUTION NETWORK									
36	B.1) MAJOR PROJECTS - NORMAL									
37	20" Dia X 7 Km Distribution Main from Desalination Plant DHA Phase VIII to Dolman Mail Clifton	192,000	-	-	-	-	192,000			
38	12" dia x 5 km Old City Area Augmentation Main	115,000	-	-	-	-	115,000			
39	20" dia x 1.5KM interlink of Shershah Main & SITE Gas Turbine Main	85,000					85,000			
40	Reinforcement work at Quetta Mid City Area 16" dia loopline	353,000					353,000			
41	Reinforcement work at Sibi Road via Mian Ghundi Link Road upto Mastung Road	233,114					233,114			
42	12" Dia x 35KM Supply Main Badin		381,341				381,341			
43	Sub-Total	978,114	381,341	-	-	-	2,620,914			
44	B.2) GAS DISTRIBUTION SYSTEM:									
45	Normal Expansion/ New Towns, Villages	5,409,610	6,681,936				12,091,546			
46	UFG Reduction Program	9,182,710	4,495,879				13,678,589			
47	Sub-Total	14,592,320	11,177,815	-	-	-	25,770,135			
48	Total - Distribution (B)	15,570,434	11,559,156	-	-	-	27,129,590			
49	C) OTHERS									

SUI SOUTHERN GAS COMPANY LIMITED FIVE YEAR CAPITAL EXPENDITURE PLAN									
Annexure-B									
S. NO.	DESCRIPTION	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	Rs million		
		Revised	ERR	Projected	Projected	Projected	FY 2020-21 to FY 2024-25	TOTAL	
50	C.1) Construction Equipment	433.600	225.000					658.600	
51	C.2) Other Capital Expenditure	2,735.720	3,776.638	4,154.302				10,666.660	
52	Total - Others (C)	3,169.320	4,001.638	4,154.302				11,325.260	
53	D) LPG Air Mix Projects - Existing/New								
54	D.1) Gawadar	-	-	-	-	-			
55	D.2) Surab	-	-	-	-	-			
56	D.3) Noshki	16,540	9,780	-	-	-		26,320	
57	D.4) Kot Ghulam Muhammad	-	-	-	-	-			
58	D.5) Awaran	-	-	-	-	-			
59	D.6) Bela & others	-	-	-	-	-			
60	D.7) Zhob, Qilia Saifullah, Loralai, Kharan, Keech Turbat, Khuzdar, Panjgor, Chasi, Uthal, Windar etc	-	-	-	-	-			
61	Total - LPG Air Mix Projects (D)	16,540	9,780	-	-	-		26,320	
62	GRAND TOTAL (A+B+C+D)	21,812.294	32,121.204	7,032.302	-	-		60,965.800	

SUI SOUTHERN GAS COMPANY LIMITED
ESTIMATED PRESCRIBED PRICES

Rate Rs per MMBTU

CATEGORY OF CONSUMERS	PRESCRIBED PRICES effective from 01-07-2021	Price Adjustment	ESTIMATED PRESCRIBED PRICES effective from 01-07-2021
	as per notification dated 23 Nov 2020		
<u>DOMESTIC CONSUMERS</u>			
<u>a) Standalone meters:</u>			
<u>b) Religious places: Mosques, churches, temple, madrassas and hostels attached thereto:</u>			
Upto 50 CM per month - All off-takes at flat rate of	121.00	-	121.00
Upto 100 CM per month - All off-takes at flat rate of	300.00	-	300.00
Over 100 CM per month - All off-takes at flat rate of	553.00	-	553.00
Over 200 CM per month - All off-takes at flat rate of	738.00	-	738.00
Over 300 CM per month - All off-takes at flat rate of	1,069.00	-	1,069.00
Over 400 CM per month - All off-takes at flat rate of	1,410.00	-	1,410.00
Minimum charges (Rs. per month)	172.58	-	172.58
<u>c) HOSTELS & RESIDENTIAL COLONIES-BULK METERS</u>			
All off-takes at flat rate of	780.00	-	780.00
Minimum charges (Rs. per month)	3,900.00	-	3,900.00
<u>SPECIAL COMMERCIAL CONSUMERS (Roti Tandoors)</u>			
Upto 100 CM per month - All off-takes at flat rate of	110.00	-	110.00
Over 100 CM per month - All off-takes at flat rate of	220.00	-	220.00
Over 300 CM per month - All off-takes at flat rate of	700.00	-	700.00
Minimum charges (Rs. per month)	148.50	-	148.50
<u>COMMERCIAL CONSUMERS</u>	1,239.83	190.49	1,430.32
Minimum charges (Rs. per month)	6,415.00		6,415.00
<u>ICE FACTORIES</u>	1,239.83	190.49	1,430.32
Minimum charges (Rs. per month)	6,415.00		6,415.00
<u>INDUSTRIAL CONSUMERS</u>	986.65	190.49	1,177.14
Minimum charges (Rs. per month)	35,540.00		35,540.00
<u>ZERO-RATED SECTORS AND THEIR CAPTIVE POWERS</u>	759.55	190.49	950.04
Minimum charges (Rs. per month)	27,616.00		27,616.00
<u>C.N.G STATIONS</u>	1,239.83	190.49	1,430.32
Minimum charges (Rs. per month)	45,521.00		45,521.00
<u>CAPTIVE POWERS</u>	986.65	190.49	1,177.14
Minimum charges (Rs. per month)	36,653.00		36,653.00
<u>CEMENT FACTORIES</u>	1,234.03	190.49	1,424.52
Minimum charges (Rs. per month)	45,588.90		45,588.90
<u>PAKISTAN STEEL</u>	986.65	190.49	1,177.14
Minimum charges (Rs. per month)	35,540.00		35,540.00
<u>FAUJI FERTILIZER BIN QASIM LIMITED</u>			
Feed stock for fertilizer	300.00	-	300.00
Power generation	986.65	190.49	1,177.14
<u>EXISTING POWER STATIONS</u>	796.27	190.49	986.76
Minimum charges (Rs. per month)	28,898.00		28,898.00
<u>INDEPENDENT POWER PRODUCERS</u>	796.27	190.49	986.76
Minimum charges (Rs. per month)	28,898.00		28,898.00

Note:-

- Upward adjustment of Rs 114.39 per MMBTU for FY 2021-22 has been re-worked at Rs 190.49 per MMBTU with the consideration that effect of price adjustment not to pass on to domestic, special commercial (roti tandoors) customers and feedstock of fertilizer industry.
- Minimum charges as per consumer price notifications dated 23 October 2020 issued by the Authority.

ANNEXURE - D**BASIS & ASSUMPTIONS OF PETITION FOR ESTIMATED REVENUE REQUIREMENT (ERR) FOR FY 2021-22****A) Tariff**

Consumers' prices have been taken as per latest consumer price notification dated: 23rd October 2020. SSGC prescribed (Retainable) prices have been taken as per OGRA prescribed price notification No. OGRA-10-37(7)/2020 dated 23 November 2020.

Sindh High Court has granted stay to certain industrial consumers on OGRA price notifications. While working out the sales revenue the impact of these stay orders have not been accounted for in the instant 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 instant 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 instant Petition owing to the reason that the related agreement signed between SSGC and JJVL 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 & claimed in revised estimates or at the time of Final Revenue Requirement Determination for the respective period.

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 instant petition may be amended as a consequence of decision by SCP.

C) Gas availability

The gas availability of 371,680 MMCF or 1,018 MMCFD for FY 2021-22 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 -11.8% over FY 2020-21 estimates of 421,766 MMCF or 1,156 MMCFD.

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

Gas Fields (anticipated)	(MMCFD)	Starting Dates
Suleman	25	Jul - 21
Mangrio	8	-do-
Badin-IV North (Zainab)	3	-do-
Hadaf X-1 / Badeel X-1	12	-do-
Total	48	

D) Cost of Gas

The cost of gas purchased is based on projected wellhead gas prices effective July 2020 worked out on estimated average C&F price for Crude Oil at US\$ 54.62 per barrel and HSFO US\$ 327.22 per metric ton.

Oil Prices Assumption: (i) Crude oil average prices are based on natural gas forecast for 2022, 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, HSFO prices are escalated by around 2% per month based on last months actual data which reflects 13% increase upto Nov-2020.

Rupee v/s US\$ parity has been maintained at Rs. 169 for the said year in line with OGRA DERR FY 2020-21 dated: 14 July 2020. 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. 611.39 per MMBTU for FY 2021-22 as compared to cost of gas worked out in the DERR FY 2020-21 of Rs. 526.12 per MMBTU.

E) Un-accounted For Gas (UFG)

UFG for indigenous gas has been projected at 9.31% i.e 42,612 MMCF versus benchmark of 6.30% i.e. 5% + 50% of 2.6% (based on UFG Benchmark set by the Authority as per decision for Estimated Revenue Requirement (DERR) for FY 2017-18). 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 dedicated line SSGC is still 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 installed in SNGPL's franchise area. Consequently, the gas has to be

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absorbed in SSGC system in order to save the integrity of pipelines and terminals, and

- Construction of SSGC's 30" diameter x 125 Km pipeline (SMS Sindh University to SMS Pakland) has been delayed for long due to the unavailability of requisite permissions/ NOCs/ transfers of the land required for development of pipeline ROW. As a result, SSGC remains deprived of the required pipeline capacity to transport gas from the gas fields located in the Northern part of Sindh towards the consumption centres in the Southern Sindh i.e. Karachi and Hyderabad.

Accordingly, the UFG has been worked out at 5.26% on volume handling basis and the impact of the differential of Rs. 6.45 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 worth mentioning here 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) at the cost of compromising more profitable sectors which are also less prone to the menaces of UFG 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 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.

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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), SSGCL 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.

The matter has been delayed during the last three years, SSGC has forcefully taken up the issue of ROWs and permissions with the Sindh Government. However, recently Sindh Cabinet has given principle approval of ROW and rates are under discussion with the GoS. 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.

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 2019-20, the saving recorded was 5.2 BCF versus target of 7.9 BCF. The main contributor in the shortfall of achievement was COVID-19 which impeded company's efforts during the last quarter of 2019-20. Moving forward, during the first half of the FY 2020-21, effective implementation of the UFG reduction plans have led to a companywide UFG savings of around 4.2 BCF. UFG FY 2020-21 is projected at 12.88% (54.8 BCF). Whereas, the projected UFG for FY 2021-22 is 10.01% (42.6 BCF). Whereas, subject to the achievement of targets and approval of the Baluchistan Tariff, UFG for the year is projected at 7.66% (subject to the approval of Baluchistan tariff).

As part of the efforts to counter the wide spread gas theft practices, a special Counter Gas Theft operations (CGTO) has been established to focus on gas theft. In this regard, an SSGC Police station has also been established in Karachi for the sole purpose of apprehending gas thieves and further two Police Stations will be established in Hyderabad and Larkana. Special Courts (27 No. in Sindh and 11 No. in Balochistan), have been established to prosecute and hear gas theft cases only; this has been a result of the Anti-Gas Theft Act of 2016. However, special laws for

gas theft in domestic sector are/is 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. 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. In addition to the above, to overcome the restrictions which are imposed by Sindh Building Control Authority (SBCA) on providing gas connections to domestic consumers in certain areas, buildings and localities in Karachi city, the Company is planning to raise claims against unauthorized users of gas in such areas and buildings as mentioned above. Details of this initiative have been finalised and will be furnished to the Authority through a separate letter.

For the specific purpose of reducing and to maintain focus on UFG reduction strategies and action, a separate UFG Division has been created 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

For the FY 2021-22, SSGC plans to complete 115 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 490 KM distribution network is planned for FY 2021-22. 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 572 MMCF. For the purpose of context, surveys and estimations have shown that even a single leakage point can contribute a loss of 125,000 to 175,000 SCF of gas per annum. 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.

New Innovative Solutions for Distribution Pipeline Integrity and Operations:

The following new initiatives have been envisaged as Pilot Projects

Rehabilitation using hydraulic / pneumatic pipe bursting technology

Pipeline rehabilitation will 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. Most importantly, 50% construction time is reduced, with 100-200 meters replaced in 45-60 minutes.

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. The liner is inserted inside the pipe and pressurized, resulting in a formation of a strong internal bond / coat which lasts for up to 50 years. Continuous lengths of 2.5 km can be achieved in one go.

Smart Balls / Pipers technology

Out of the box solutions such as the Smart Balls or Pipers will be used for Theft detection. These balls can float freely inside pipelines previously considered unpiggable or inaccessible – with no special teams. They are built to collect comprehensive data even in the most challenging pipeline networks of oil, water & natural gas. Smart Balls are suited to access all pipelines of any material, even those as small as 2" inch. They are equipped with multi sensors to collect & monitor pressure data, gas leaks, illegal tapping and metal loss etc.

Intelligent pressure profiling will be implemented on 150 TBS through automation of valves and regulators. The system will allow control of downstream pressures remotely from central control room. This will aid in reducing UFG by lowering pressures in high theft and no go areas, thus achieving optimal operations pressures.

Focused drives will be initiated to identify and rectify the underground and overhead leakages. UFG savings of over 1,144 MMCF are expected from the same. Efforts to mitigate and deter gas theft practices will be further enhanced. Substantial UFG savings of 4,400 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 6,086 MMCF is expected from this activity.

An amount of PKR 6,816 million is envisaged to cater Capital Expenditure and PKR 1,432 million for revenue expenditure (total = 8,248 Million) in order to obtain the above described targets.

G) Operating Costs:

i) HR Cost:

In its Motion for Review Petition (MFR) against the determination for Estimated Revenue Requirement for FY 2020-21, the Company claimed HR cost based on its estimates for the Year at Rs. 17,312 million as against OGRA's determination of Rs. 12,497 million. In the instant petition for FY 2021-22 the base figure has been kept at the level of FY2020-21 (MFR), on top of it, a major estimated addition to HR cost resulting from expected Regularization of Third Party / casual workers through Court Orders is kept at Rs. 2,500 million (as detailed below)

HR COST ESTIMATES FY 2021-22	
Description	Rs. Million
HR Cost maintained at Review Petition FY 2020-21	17,312
Third Party / contract workers existing cost re-classification from Repair & maintenance	1,322
Incremental impact of third Party / contract workers induction	1,178
HR cost estimates for FY 2021-22	19,812

Brief on the cases of third Party / casual workers Regularization

SSGC has outsourced its various jobs and in turn has acquired services of requisite employees through 3rd Party Service Providers / Outsourced Service Providers (OSPs). They are Principal Employers and responsible for Management, Control, Supervision and Payment of Wages of all 3rd Party Casual Workforce engaged by them for rendering services to SSGC. The Outsourced Service Providers (OSPs) are responsible to provide manpower requirements to SSGC as per determined operational needs at quoted commission rates.

By the passage of time SSGC has acquired services of approx., 4,500 casual workers, deployed at various locations of SSGC in Sindh and Baluchistan. In 2013 the third party workers started initiating litigation against the Company for regularization of their services. Since then the Company had successfully been contesting/ defending the cases in its favour. However, in December 2017 this scenario dramatically changed when the Honorable Supreme Court of Pakistan in the case of Bakht Siddique & Others vs M/s State Oil Company Limited ordered the PSO to regularize the services of the petitioners (third party workers).

As the result of the Judgment of the Honorable Supreme Court of Pakistan in the case of PSO the Honorable High Court of Sindh, in May 2018 decided the case of M/s Allana Mousa & 163 Others vs SSGC in favour of the petitioners and ordered SSGC to regularize their services, against which the Company, in July 2018, filed appeal before Honorable Supreme Court of Pakistan. In January 2020 the Supreme Court of Pakistan declined the appeal of SSGC and maintained the orders of the High Courts. Therefore due to the instant orders of the Courts, the trend of litigation of third party workers for regularization of their services has been rising day by day and approx., 2,500 casual workers have approached the High Courts of Sindh and Baluchistan for regularization of their services, and the cases are pending for adjudication. However, as of today we have completed the process of regularization of 355 litigants as per the Court orders.

Moreover, the cost effect has been calculated of these 355 litigants who have been regularized as yet which is approximately Rs. 207 Million per Annum.

ii) Repair & Maintenance:

The total estimates under this head were Rs. 2,469 million, however, an amount of Rs. 1,322 million for third Party / contract workers existing cost has been re-classified from Repair & maintenance to HR cost owing to the expected regularization of casual workforce as per Apex Courts. , therefore Rs. 1,147 million has been estimated under this head as tabulated below:

REPAIR & MAINTENANCE COST ESTIMATES FY 2021-22		
S.No.	Description	Rs. Million
1.	Gross Repair and Maintenance cost	2,469
2.	Third Party / contract workers existing cost re-classification from Repair & maintenance to HR cost	(1,322)
	Net Repair & Maintenance cost	1,147

iii) Gas Consumed Internally:

Calculated based on estimated volumes of gas internal consumption for FY 2021-22 valued at WACOG of indigenous gas at Rs. 611.39 per MMBTU.

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.

Background / Explanation

In order to explain the impact of this IFRS, it is submitted that since 2010, OGRA is allowing provision for doubtful debts only against disconnected customers, and no provision is allowed against overdue receivable balances of live consumers. However, this IFRS now requires that the provision would be required to be accounted for on *Expected Credit Loss (ECL) method instead of general provisioning* based on historic data. This change in method would result in substantial additional provisioning against overdue receivable balances from live consumers.

This IFRS would be applicable on all financial assets comprising mainly Receivables but SECP has exempted its application on financial assets due from Government of Pakistan or ultimately due from Government of Pakistan (including receivables in the context of circular debt) till 30 June 2021. Thus besides receivables against sale to gas consumers (except for circular debt), other receivables also required to be tested on the principle of ECL and provision required to be accounted for accordingly.

In this relation the ECL provisioning estimated/included in the instant petition amounts to Rs. 1,612 million for disconnected consumers only. As the application of this IFRS has been adopted/applied by the company recently therefore the provisioning for other categories which is a mandatory part of this IFRS would be claimed at actual at the time of finalization of total revenue requirement for the said year. The Authority is requested to allow this provision as it is a mandatory requirement under International Financial Reporting Standards / SECP adopted by the Company.

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 2021-22 the Company plans to capitalize around Rs. 32.5 billion (around Rs. 15 billion represents carry forward of major projects) which facilitates expansion in transmission system by 147 kms and distribution network by 1,523 kms which includes mains and services by 1,210 km, new towns & villages of 278 kms and major distribution projects of 35 kms. Besides this, rehabilitation of mains and services, 490 km has been envisaged for UFG 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 109,313 new indigenous gas consumers and 24,663 new RLNG consumers, hence total no. of customers is expected to become 3.47 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 2020-21 (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.

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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 commissioned LPG Air Mix Plants at Awaran and Bella related to SSGC. Further, ECC directed the Petroleum Division to submit a proposal in consultation with Balochistan government for alternate cost effective provision of LPG.

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A

SUI SOUTHERN GAS COMPANY LIMITED
PETITION FOR
ESTIMATED REVENUE REQUIREMENT
FY 2021-22
INDEX - SECTION - A

Working for Tariff Adjustment & Financial Statements	
DESCRIPTION	Table #
Working for Tariff Adjustment	A-1
Profit & Loss Account	A-2

SUI SOUTHERN GAS COMPANY LIMITED
WORKING FOR TARIFF ADJUSTMENT REQUIRED
PETITION ERR FY 2021-22

Rs Million

S.No.	DESCRIPTION	Petition ERR FY 2021-22	Related to Natural Gas Customers	Related to LNG Customers	S.No.
1	1. Gas Sales volume in MMCF	400,928	327,879	73,049	1
2	Energy Sale in MMBTU	398,115	321,321	76,793	2
3	Energy delivered in MMBTU			385,227	3
4	2. A: Net operating revenue				4
5	Gross Sales - net of general sales tax	339,265,348	233,358,935	105,906,414	5
6	Less: Gas Development surcharge - at existing	14,829,466	14,829,466		6
7	Net Sales	324,435,882	218,529,469	105,906,414	7
8	RLNG Transportation Income	9,428,828		9,428,828	8
9	Income from Sale of LPG, NGL & Condensate	(9,235)	(9,235)		9
10	Meter rentals	1,692,920	1,671,711	21,209	10
11	Amortization of deferred credit	595,697	595,697		11
12	Late payment Surcharge	1,025,657	1,025,657		12
13	Meter manufacturing plant profit	59,219	59,219		13
14	Other income	3,336,596	2,097,851	1,238,745	14
15	Sub total	16,129,682	5,440,900	10,688,783	15
16	Total operating income "A"	340,565,565	223,970,368	116,595,196	16
17	B: Less operating expenses				17
18	Cost of gas	336,602,813	224,151,975	112,450,838	18
19	Transmission and distribution cost	26,118,156	23,848,978	2,269,178	19
20	Depreciation	9,199,055	7,703,858	1,495,197	20
21	Financial charges	6,139,785	3,921,263	2,218,522	21
22	Other charges excluding W.P.P.F	1,459,000	1,459,000		22
23	Total operating expenses "B"	379,518,811	261,085,075	118,433,736	23
24	C: Profit / (Loss) before WPPF (A-B)	(38,953,246)	(37,114,706)	(1,838,540)	24
25	D: Less: Workers Profit Participation Fund	(1,882,288)	(1,790,361)	(91,927)	25
26	E: Add: Non-admissible expenditure	(37,070,958)	(35,324,345)	(1,746,613)	26
27	E.(i) Add: Financial charges of banks / others	6,139,785	3,921,263	2,218,522	27
28	Non-operating / disallowed expenses				28
29	Adjustment for UFG above benchmark	-	-	-	29
30	UFG adjustments on RLNG volume handled basis (ring fence)	-	6,449,980	(6,449,980)	30
31	Depreciation - EETPL	27,896		27,896	31
32	Other expenses	109,000	109,000		32
33	E.(i) sub-total	6,276,681	10,480,244	(4,203,562)	33
34	E.(ii) Less: Non operating other income	119,060	119,060		34
35	Interest income & others from SNGPL	135,732	-	135,732	35
36	Interest on short term loan to subsidiary	156,382	156,382		36
37	Amortization of Government grant	46,008	46,008		37
38	Income for receivable against asset contribution	32,026	32,026		38
39	Margin for LSA Management	1,103,013	-	1,103,013	39
40	Meter manufacturing plant profit(loss)	29,609	29,609		40
41	Income from Sale of LPG, NGL & Condensate	(4,617)	(4,617)		41
42	E.(ii) sub-total	1,617,213	378,468	1,238,745	42
43	Net non-admissible expenditure E.(ii) - E.(i)	4,659,468	10,101,775	(5,442,307)	43
44	F: Operating profit / (Loss) (C - D + E)	(32,411,489)	(25,222,570)	(7,188,920)	44
45	3. Return required on Net Assets:				45
46	Net assets at beginning	77,312,223	47,943,601	29,368,622	46
47	Net assets at ending	100,275,538	68,860,603	31,414,935	47
48		177,587,761	116,804,204	60,783,557	48
49	Average Net Fixed Assets (i.a)	88,793,881	58,402,102	30,391,778	49
50	Less: Meter Manufacturing Plant and LPG Air Mix Project Assets / EETPL				50
51	Net assets at beginning	3,601,095	2,659,601	941,494	51
52	Net assets at ending	3,501,504	2,587,906	913,598	52
53		7,102,599	5,247,506	1,855,093	53
54	Average Net Fixed Assets (i.b)	3,551,299	2,623,753	927,546	54
55					55
56	Average Net Fixed Assets related to Gas Activity (i)	85,242,581	55,778,349	29,464,232	56
57					57
58	Deferred Credit at beginning	5,258,260	5,258,260		58
59	Deferred Credit at ending	5,388,525	5,388,525		59
60		10,646,785	10,646,785	-	60
61	Average Deferred Credit (ii)	5,323,392	5,323,392	-	61
62					62
63	a) Average Net fixed assets after Deferred Credit (3.i - 3.ii)	79,919,189	50,454,956	29,464,232	63
64	b) Return required on Net Assets	17.43%	17.43%	17.43%	64
65	c) Amount of return required (3.a * 3.b)	13,929,915	8,794,299	5,135,616	65
66	Additional Revenue Required for Gas Operation				66
67	4. Shortfall / (Surplus) over return required (2.F - 3.c)	46,341,404	34,016,868	12,324,535	67
68	5. Gross-up for W.P.P.F @ 5% of (4.)	48,780,425	35,807,229	12,973,195	68
69	6. Increase in Prescribed Price - Rs per MMBTU	122.53	111.44		69
70					70
71	Subsidy for LPG Air Mix Projects over & above Gas Operation	950,056	950,056		71
72					72
73	Total Shortfall / (Surplus) in Revenue Requirement	49,730,480	36,757,285	12,973,195	73
74	Shortfall in Rs per MMBTU for Natural Gas Customers (w.e.f. 1 July 2021)	124.92	114.39		74
75					75
76	Shortfall in Rs per MMBTU for RLNG Customers (w.e.f. 1 July 2021)			33.67	76

SUI SOUTHERN GAS COMPANY LIMITED
PROJECTED PROFIT AND LOSS ACCOUNT

S.No.	DESCRIPTION	Determination ERR FY 2020-21 dt:-14-07-2020	Review Petition ERR FY 2020-21			Petition ERR 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		
1	Sales volume in MMCF	373,249	369,336	28,698	327,879	73,049		1
2	Energy Sale in MMMBTU	359,812	357,722	29,484	321,321	76,793		2
3	Rs Million							3
4	Gas sales net of sales tax	276,768.184	271,100.709	33,223.500	233,358.935	105,906.414		4
5	Gas development surcharge - at existing	-	5,222.195	-	14,829.466	-		5
6	Less : Price increase / (decrease)	(6,586.311)	27,670.100	5,240.831	36,757.285	12,973.195		6
7	Gas development surcharge after price adjustment	6,586.311	(22,447.906)	(5,240.831)	(21,927.819)	(12,973.195)		7
8	Gas development surcharge - deferral	50,983.000	50,983.000	-	-	-		8
9	Cross Subsidy for Air Mix LPG Operation over & above Gas Operation	1,079.811	1,079.811	-	950.056	-		9
10	Gas development surcharge after adjustment	58,649.122	29,614.906	(5,240.831)	(20,977.763)	(12,973.195)		10
11	Net sales	218,119.062	241,485.803	38,464.331	254,336.698	118,879.609		11
12	Cost of gas	217,331.575	224,565.678	29,040.939	224,151.975	112,450.838		12
13	Gross Margin	787.486	16,920.125	9,423.391	30,184.722	6,428.771		13
14	Transmission and distribution costs	15,593.775	22,357.755	1,973.119	23,848.978	2,269.178		14
15	Depreciation	6,847.324	7,011.146	1,595.048	7,703.858	1,495.197		15
16		22,441.099	29,368.901	3,568.167	31,552.836	3,764.376		16
17	Meter rentals	854.837	1,426.796	-	1,671.711	21.209		17
18	Recognition of income against deferred credit	529.618	530.270	-	595.697	-		18
19	Operating profit / (loss)	(20,269.158)	(10,491.710)	5,855.224	899.295	2,685.604		19
20	Late payment surcharge	1,248.075	1,248.075	-	1,025.657	-		20
21	Meter manufacturing plant profit	57.493	57.493	-	59.219	-		21
22	Air Mix LPG projects profit	264.719	264.719	-	167.199	-		22
23	RLNG Transportation Income	-	-	9,321.349	-	9,428.828		23
23	Income from Sale of LPG, NGL & Condensate	3,013.222	3,013.222	-	(9.235)	-		23
24	Other income	2,766.201	2,766.201	1,074.234	2,097.851	1,238.745		24
25		(12,919.449)	(3,142.002)	16,250.806	4,239.985	13,353.177		25
26	Other charges excluding (W.P.P.F.)	1,571.832	1,571.832	(0.000)	1,459.000	(0.000)		26
27	Workers Profit Participation Fund (W.P.P.F.)	-	-	659.321	-	556.733		27
28		(14,491.282)	(4,713.834)	15,591.485	2,780.985	12,796.444		28
29	Financial charges	8,373.131	8,373.131	3,064.389	3,921.263	2,218.522		29
30	Profit / (loss) before taxation	(22,864.413)	(13,086.965)	12,527.096	(1,140.279)	10,577.922		30

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SUI SOUTHERN GAS COMPANY LIMITED
PETITION FOR
ESTIMATED REVENUE REQUIREMENT
FY 2021-22
INDEX - SECTION - B

B

Supporting Schedules to Financial Statements

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Table # B-1.1

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF FIELD WISE INDIGENOUS
GAS PURCHASES
FOR ERR FY 2021-22

S.No.	GAS FIELD	Determination ERR FY 2020-21 (14-07-2020)	Review Petition ERR FY 2020-21	Petition ERR FY 2021-22	Volume in MMCF		S.No.
					Variance Inc. / (Dec.)	%	
1	Sui	40,150	39,948	40,150	-	-	1
2	Kandhkot	544	543	365	(179)	(33.0)	2
3	Mazarani	1,095	1,097	730	(365)	(33.3)	3
4	Gambat Block - Wafiq/Shahdad-(XI)	25,396	26,112	33,945	8,549	33.7	4
5	Adam X-1 / Hala	4,709	4,988	4,015	(694)	(14.7)	5
6	Hadaf X-1 & Badeel X-1	264	264	4,380	4,116	1,559.1	6
7	Badin Block	18,250	17,648	9,417	(8,833)	(48.4)	7
8	Khipro Block - Naimat Basal	100,225	94,527	60,955	(39,270)	(39.2)	8
9	Mirpurkhas Block - Kausar	7,300	11,916	22,265	14,965	205.0	9
10	Mitha	2,989	6,919	1,095	(1,894)	(63.4)	10
11	Kotri	1,248	1,097	29	(1,219)	(97.7)	11
12	ALIYABAD	3,650	3,030	-	(3,650)	(100.0)	12
13	Kadanwari	12,180	11,016	24,090	11,910	97.8	13
14	Bhit	43,205	42,073	24,820	(18,385)	(42.6)	14
15	Miano	11,260	10,318	3,893	(7,367)	(65.4)	15
16	Sawan	3,650	3,590	3,954	304	8.3	16
17	Maher / Mubarak Block	8,395	7,658	9,125	730	8.7	17
18	Sofia	4,380	3,636	-	(4,380)	(100.0)	18
19	Latif	3,834	3,804	3,650	(184)	(4.8)	19
20	Zamzama	2,982	2,889	365	(2,617)	(87.8)	20
21	Kirther (Rehman)-EWT	7,130	7,955	11,242	4,112	57.7	21
22	Rizq - EWT	5,645	5,857	8,833	3,188	56.5	22
23	Zargoan	4,745	5,468	6,935	2,190	46.2	23
24	Mari	337	331	365	28	8.2	24
25	Sujawal / Sujjal	877	724	365	(512)	(58.4)	25
26	Sujjal	4,415	4,458	4,380	(35)	(0.8)	26
27	Aqeeq-1	700	659	365	(335)	(47.9)	27
28	SNGL Towns-(Ghotki, Rustam, SherAli, Ubaro, etc.)	1,497	1,489	1,431	(66)	(4.4)	28
29	Sari / Hundi	730	665	365	(365)	(50.0)	29
30	Sinjhoro	12,045	11,446	5,840	(6,205)	(51.5)	30
31	Bobi	1,095	1,112	730	(365)	(33.3)	31
32	Pasaki Deep & Kunar Deep	52,598	51,489	43,431	(9,166)	(17.4)	32
33	Tay/Dars	20,402	19,811	16,064	(4,339)	(21.3)	33
34	Pakhro / Noorai Jagir/ Daru	3,285	2,731	434	(2,851)	(86.8)	34
35	Nur Bagla fields	1,095	1,063	730	(365)	(33.3)	35
36	Dachrapur / Jakhro / Gopang	579	481	365	(214)	(36.9)	36
37	Jakhro	351	336	-	(351)	(100.0)	37
38	Chutto-01	2,485	2,436	2,738	252	10.2	38
39	Bitrism	1,678	1,653	1,938	260	15.5	39
40	Thal	1,904	1,892	-	(1,904)	(100.0)	40
41	Suleman	747	747	9,125	8,378	1,121.6	41
42	Mangrio	228	228	2,920	2,692	1,180.7	42
43	Ayesha / Aminah / Ayesha (North)	5,402	5,374	3,650	(1,752)	(32.4)	43
44	Zainab	171	171	1,095	924	540.4	44
45	Bitro	-	118	1,095	1,095	100.0	45
46		425,848	421,766	371,680	(54,168)	(12.7)	46

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF FIELD WISE INDIGENOUS
GAS PURCHASES
FOR ERR FY 2021-22

S.No.	GAS FIELD	Determination ERR FY 2020-21 (14-07-2020)	Review Petition ERR FY 2020-21	Petition ERR FY 2021-22	Volume in MMCFD		S.No.
					Variance Inc. / (Dec.)	%	
1	Sui	110.0	109.4	110.0	-	-	1
2	Kandhkot	1.5	1.5	1.0	(0.5)	(33.0)	2
3	Mazarani	3.0	3.0	2.0	(1.0)	(33.3)	3
4	Gambat Block - Wafiq/Shahdad-(XI)	69.6	71.5	93.0	23.4	33.7	4
5	Adam X-1 / Hala	12.9	13.7	11.0	(1.9)	(14.7)	5
6	Hadaf X-1 & Badeel X-1	0.7	0.7	12.0	11.3	1,559.1	6
7	Badin Block	50.0	48.3	25.8	(24.2)	(48.4)	7
8	Khipro Block - Naimat Basal	274.6	259.0	167.0	(107.6)	(39.2)	8
9	Mirpurkhas Block - Kausar	20.0	32.6	61.0	41.0	205.0	9
10	Mitha	8.2	19.0	3.0	(5.2)	(63.4)	10
11	Kotri	3.4	3.0	0.1	(3.3)	(97.7)	11
12	ALIYABAD	10.0	8.3	-	(10.0)	(100.0)	12
13	Kadanwari	33.4	30.2	66.0	32.6	97.8	13
14	Bhit	118.4	115.3	68.0	(50.4)	(42.6)	14
15	Miano	30.8	28.3	10.7	(20.2)	(65.4)	15
16	Sawan	10.0	9.8	10.8	0.8	8.3	16
17	Maher / Mubarak Block	23.0	21.0	25.0	2.0	8.7	17
18	Sofia	12.0	10.0	-	(12.0)	(100.0)	18
19	Latif	10.5	10.4	10.0	(0.5)	(4.8)	19
20	Zamzama	8.2	7.9	1.0	(7.2)	(87.8)	20
21	Kirther (Rehman)-EWT	19.5	21.8	30.8	11.3	57.7	21
22	Rizq - EWT	15.5	16.0	24.2	8.7	56.5	22
23	Zargoan	13.0	15.0	19.0	6.0	46.2	23
24	Mari	0.9	0.9	1.0	0.1	8.2	24
25	Sujawal / Sujjal	2.4	2.0	1.0	(1.4)	(58.4)	25
26	Sujjal	12.1	12.2	12.0	(0.1)	(0.8)	26
27	Aqeeq-1	1.9	1.8	1.0	(0.9)	(47.9)	27
28	SNGPL Towns-(Ghotki, Rustam, SherAli, Ubaro, etc.)	4.1	4.1	3.9	(0.2)	(4.4)	28
29	Sari / Hundi	2.0	1.8	1.0	(1.0)	(50.0)	29
30	Sinjhoro	33.0	31.4	16.0	(17.0)	(51.5)	30
31	Bobi	3.0	3.0	2.0	(1.0)	(33.3)	31
32	Pasaki Deep & Kunhar Deep	144.1	141.1	119.0	(25.1)	(17.4)	32
33	Tay/Dars	55.9	54.3	44.0	(11.9)	(21.3)	33
34	Pakhro / Noorai Jagir/ Daru	9.0	7.5	1.2	(7.8)	(86.8)	34
35	Nur Bagla fields	3.0	2.9	2.0	(1.0)	(33.3)	35
36	Dachrapur / Jakhro / Gopang	1.6	1.3	1.0	(0.6)	(36.9)	36
37	Jakhro	1.0	0.9	-	(1.0)	(100.0)	37
38	Chutto-01	6.8	6.7	7.5	0.7	10.2	38
39	Bitrism	4.6	4.5	5.3	0.7	15.5	39
40	Thal	5.2	5.2	-	(5.2)	(100.0)	40
41	Suleman	2.0	2.0	25.0	23.0	1,121.6	41
42	Mangrio	0.6	0.6	8.0	7.4	1,180.7	42
43	Ayesha / Aminah / Ayesha (North)	14.8	14.7	10.0	(4.8)	(32.4)	43
44	Zainab	0.5	0.5	3.0	2.5	540.4	44
45	Bitro	-	0.3	3.0	3.0	100.0	45
46		1,166.7	1,155.5	1,018.3	(148.4)	(12.7)	46

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF FIELD WISE INDIGENOUS
GAS PURCHASES
FOR ERR FY 2021-22

Volume in MMMBTU

S.No.	GAS FIELD	Determination ERR FY 2020-21 (14-07-2020)	Review Petition ERR FY 2020-21	Petition ERR FY 2021-22	Variance Inc. / (Dec.)	%	S.No.
1	Sui	38,335	38,141	38,424	88	0.2	1
2	Kandhkot	446	444	365	(81)	(18.1)	2
3	Mazarani	1,111	1,114	741	(370)	(33.3)	3
4	Gambat Block - Wafiq/Shahdad-(XI)	24,222	24,708	32,757	8,535	35.2	4
5	Adam X-1 / Hala	4,903	5,193	4,244	(659)	(13.4)	5
6	Hadaf X-1 & Badeel X-1	264	264	4,380	4,116	1,559.1	6
7	Badin Block	20,777	19,964	10,359	(10,418)	(50.1)	7
8	Khipro Block - Naimat Basal	88,354	83,114	58,090	(30,264)	(34.3)	8
9	Mirpurkhas Block - Kausar	8,092	13,465	23,178	15,086	186.4	9
10	Mitha	2,994	6,927	1,096	(1,898)	(63.4)	10
11	Kotri	1,248	1,094	28	(1,220)	(97.8)	11
12	ALIYABAD	3,650	3,030	-	(3,650)	(100.0)	12
13	Kadanwari	12,196	11,028	24,114	11,918	97.7	13
14	Bhit	41,023	40,003	23,926	(17,096)	(41.7)	14
15	Miano	11,263	10,320	3,897	(7,366)	(65.4)	15
16	Sawan	3,673	3,622	4,009	337	9.2	16
17	Maher / Mubarak Block	9,047	8,258	9,882	835	9.2	17
18	Sofia	4,719	3,917	-	(4,719)	(100.0)	18
19	Latif	3,856	3,838	3,701	(155)	(4.0)	19
20	Zamzama	2,378	2,305	291	(2,087)	(87.8)	20
21	Kirther (Rehman)-EWT	5,978	6,689	9,758	3,780	63.2	21
22	Rizq - EWT	5,258	5,484	7,667	2,409	45.8	22
23	Zargoan	4,509	5,197	6,574	2,065	45.8	23
24	Mari	246	241	365	119	48.3	24
25	Sujawal / Sujjal	925	765	385	(540)	(58.4)	25
26	Sujjal	4,415	4,517	4,617	201	4.6	26
27	Aqeeq-1	738	696	402	(337)	(45.6)	27
28	SNGL Towns-(Ghotki, Rustam, SherAli, Ubaro, etc.)	1,300	1,293	1,431	131	10.1	28
29	Sari / Hundi	655	599	329	(327)	(49.9)	29
30	Sinjhoro	12,209	11,624	5,974	(6,235)	(51.1)	30
31	Bobbi	1,215	1,241	822	(393)	(32.3)	31
32	Pasaki Deep & Kunhar Deep	53,941	52,813	44,474	(9,467)	(17.6)	32
33	Tay/Dars	21,095	20,456	16,449	(4,646)	(22.0)	33
34	Pakhro / Noorai Jagir/ Daru	3,794	3,155	516	(3,277)	(86.4)	34
35	Nur Bagla fields	1,181	1,149	784	(397)	(33.6)	35
36	Dachrapur / Jakhro / Gopang	652	541	434	(218)	(33.4)	36
37	Jakhro	395	374	-	(395)	(100.0)	37
38	Chutto-01	2,907	2,858	3,255	348	12.0	38
39	Bitrism	1,716	1,692	2,304	588	34.3	39
40	Thal	1,904	1,891	-	(1,904)	(100.0)	40
41	Suleman	747	747	9,125	8,378	1,121.6	41
42	Mangrio	228	228	2,920	2,692	1,180.7	42
43	Ayesha / Aminah / Ayesha (North)	5,402	5,353	3,464	(1,938)	(35.9)	43
44	Zainab	171	171	1,095	924	540.4	44
45	Bitro	-	121	1,110	1,110	100.0	45
46		414,131	410,646	367,737	(46,394)	(11.2)	46

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS PURCHASES

S.No.	CATEGORY	Determination ERR FY 2020-21	Review ERR FY 2020-21	Petition ERR FY 2021-22	Variance Inc./ (Dec.) RERR over DERR		S.No.
						%	
	NG						
1	<u>Volume in MMCF</u>						1
2	Gross Purchases	425,848	421,766	371,680	(50,086)	(11.9)	2
3	Less: Gas Consumed Internally - metered	1,076	1,076	1,149	73	6.8	3
4		424,772	420,690	370,531	(50,159)	(11.9)	4
5					-	-	5
6	<u>Energy in MMBTU</u>						6
7	Gross Purchases	414,131	410,646	367,737	(42,909)	(10.4)	7
8	Less: Gas Consumed Internally - metered	1,045	1,045	1,108	64	6.1	8
9		413,086	409,601	366,629	(42,973)	(10.5)	9
10					-	-	10
11	<u>Amount in Rupees Million</u>						11
12	Gross Purchases	217,881.139	225,138.366	224,829.439	(308.927)	(0.1)	12
13	Less: Gas Consumed Internally - metered	549.564	572.688	677.463	104.776	18.3	13
14	Net Cost of Gas Purchases (NG)	217,331.575	224,565.678	224,151.975	(413.703)	(0.2)	14
15					-	-	15
16	Average Rate Rs per MMBTU	526.12	548.25	611.39	63.13	11.5	16
17							17
18	RLNG						18
19	Volume in MMCF	30,357	33,046	85,860	52,814	159.8	19
20	Less: GIC		1,856	1,597	(259)	100.0	20
21		30,357	31,190	84,263	53,073	170.2	21
22	Energy in MMBTU	31,374	33,952	90,582	56,630	166.8	22
23	Less: GIC		1,887	1,623	(264)	100.0	23
24		31,374	32,065	88,959	56,895	177.4	24
25	Cost of Gas Purchases	46,795.434	30,750.329	114,502.433	83,752.105	272.4	25
26	Less: GIC	-	1,709.389	2,051.595	342.206	100.0	26
27	Net Cost of Gas Purchases (NG)	46,795.434	29,040.939	112,450.838	83,409.899	287.2	27
28	Average Rate Rs per MMBTU	1,491.52	905.70	1,264.07	358.37	39.6	28

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

S.No.	CATEGORY	Determination ERR FY 2020-21 dt:-14-07-2020	Review ERR FY 2020-21	Petition ERR FY 2021-22	Variance Inc./(Dec.) RERR over DERR	S.No.
					%	
1	Volume MMCF					1
2		606	942	992	50	2
3	Compressor Fuel	1	1	0	(0)	3
4	LHF Badin	178	151	187	36	4
5	Domestic / other use	785	1,093	1,179	86	5
6	Transmission - total	301	372	372	-	6
7	Distribution - total	1,086	1,466	1,552	86	7
8	Total					
9	Gas Consumed Internally - metered	713	1,076	1,149	73	8
10	Gas Consumed Internally - un-metered	78	25	38	13	9
11		791	1,101	1,187	86	10
12	Third Party Damages - un-metered	269	364	364	-	11
13	Gross Gas Consumed Internally	1,060	1,466	1,552	86	12
14	Less: Non-Admissible (un-metered)	347	390	403	13	13
15	Net Gas Consumed Internally (metered)	713	1,076	1,149	73	14
16					%	15
17	Energy in MMBTU					16
18		581	914	956	42	17
19	Compressor Fuel	0	1	0	(0)	18
20	LHF Badin	174	147	182	35	19
21	Domestic / other use	756	1,061	1,138	77	20
22	Transmission - total	298	370	370	-	21
23	Distribution - total	1,054	1,431	1,508	77	22
24	Total					
25	Gas Consumed Internally - metered	685	1,045	1,108	64	23
26	Gas Consumed Internally - un-metered	77	25	38	13	24
27		762	1,069	1,146	77	25
28	Third Party Damages - un-metered	266	362	362	-	26
29	Gross Gas Consumed Internally	1,029	1,431	1,508	77	27
30	Less: Non-Admissible (un-metered)	343	386	400	13	28
31	Net Gas Consumed Internally (metered)	685	1,045	1,108	64	29
32						
33	Average Rate - Rs per MMBTU	526.12	548.25	611.39	63	30
34	Average Rate - Rs per MCF	511.64				31
35						32
36	Cost of Gas Consumed Internally - Rs Million					33
37		310.054	500.947	584.547	83.600	34
38	Compressor Fuel	0.512	0.274	0.118	(0.156)	35
39	LHF Badin	91.072	80.639	111.195	30.555	36
40	Domestic / other use	401.637	581.861	695.860	113.999	37
41	Transmission - total	154.004	202.635	225.969	23.334	38
42	Distribution - total	555.641	784.496	921.828	137.333	39
43	Total					
44	Gas Consumed Internally - metered	364.799	572.688	677.463	104.776	40
45	Gas Consumed Internally - un-metered	39.908	13.469	23.187	9.718	41
46		404.707	586.157	700.650	114.493	42
47	Third Party Damages - un-metered	137.631	198.339	221.178	22.839	43
48	Gross Gas Consumed Internally	542.338	784.496	921.828	137.333	44
49	Less: Non-Admissible (un-metered)	177.539	211.808	244.365	32.557	45
50	Net Gas Consumed Internally (metered)	364.799	572.688	677.463	104.776	46
51						47
52	RLNG - Gas Consumed Internally					48
53			5.09	4.37	(0.71)	49
54			1,856	1,597	(259)	50
55			1,887	1,623	(264)	51
56			905.70	1,264.07	358.37	52
57	Average Rate - Rs per MMBTU		1,709.389	2,051.595	342.206	
58	Cost of Gas Consumed Internally - Rs Million					

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES

VOLUME IN MMCF

S.No.	CATEGORY	Determination ERR FY 2020-21	Petition ERR FY 2021-22	Variance Inc./(Dec.) Petition 2021-22 over Determination FY 2020-21		S.No.
					%	
1	POWER	71,270	63,182	(8,088)	(11.3)	1
2	NOORIABAD POWER PLANT	6,708	6,101	(607)	(9.0)	2
3	HABIBULLAH COASTAL POWER	6,481	7,300	819	12.6	3
4	CEMENT	242	133	(108)	(44.9)	4
5	FERTILIZER - FEEDSTOCK	18,025	19,043	1,018	5.6	5
6	CNG STATIONS	25,105	15,345	(9,760)	(38.9)	6
7	CAPTIVE POWER	48,861	33,142	(15,719)	(32.2)	7
8	CAPTIVE POWER (Zero-rated)	41,291	49,932	8,641	20.9	8
9	INDUSTRIAL (Zero-rated)	19,486	49,093	29,606	151.9	9
10	GENERAL INDUSTRIES	45,180	35,474	(9,706)	(21.5)	10
11	COMMERCIAL	11,397	10,846	(552)	(4.8)	11
12	DOMESTIC	105,566	111,338	5,772	5.5	12
13	GRAND TOTAL SALES	399,611	400,928	1,317	0.3	13
14	TOTAL RLNG SALES	26,363	73,049	46,686	177.1	14
15	TOTAL NG SALES	373,249	327,879	(45,370)	(12.2)	15

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES

VOLUME IN MMCF

S.No.	CATEGORY	Determination ERR FY 2020-21	Petition ERR FY 2021-22	Variance Inc./(Dec.) Petition 2021-22 over Determination FY 2020-21	%	S.No.
1	(A) KARACHI					1
2	TOTAL INDUSTRIAL	217,476	231,340	13,864	6.4	2
3	POWER - KE (NG)	42,345	18,287	(24,058)	(56.8)	3
4	POWER - RLNG	21,900	44,895	22,995	105.0	4
5	CEMENT	234	121	(113)	(48.4)	5
6	FERTILIZER - Feedstock	18,025	19,043	1,018	5.6	6
7	FERTILIZER - Power	573	404	(169)	(29.6)	7
8	PAK STEEL	749	782	33	4.4	8
9	CNG STATIONS	14,107	520	(13,587)	(96.3)	9
10	CNG STATIONS (RLNG)	-	8,078	8,078	100.0	10
11	CAPTIVE POWER	31,085	17,095	(13,990)	(45.0)	11
12	CAPTIVE POWER (RLNG)	2,636	7,067	4,431	168.1	12
13	CAPTIVE POWER (Zero-rated)	28,760	37,612	8,852	30.8	13
14	INDUSTRIAL (Zero-rated)	19,208	48,351	29,143	151.7	14
15	GENERAL INDUSTRIES (RLNG)	479	889	411	85.8	15
16	GENERAL INDUSTRIES	37,375	28,196	(9,179)	(24.6)	16
17						17
18	COMMERCIAL	7,682	6,881	(800)	(10.4)	18
19	COMMERCIAL (RLNG)	818	903	85	10.4	19
20	COMMERCIAL (SPRT)		196	196	100.0	20
21	DOMESTIC (RLNG)		21	21	100.0	21
22	DOMESTIC	61,965	65,729	3,764	6.1	22
23	SUB TOTAL 'A'	287,940	305,070	17,130	5.9	23
24						24
25	(B) SINDH EXCLUDING KARACHI					25
26	TOTAL INDUSTRIAL	56,984	39,117	(17,867)	(31.4)	26
27	POWER - WAPDA	7,025	-	(7,025)	(100.0)	27
28	NOORABAD POWER PLANT	6,708	6,101	(607)	(9.0)	28
29	CEMENT	7	12	5	66.5	29
30	CNG STATIONS	9,868	357	(9,511)	(96.4)	30
31	CNG STATIONS (RLNG)		5,830	5,830	100.0	31
32	CAPTIVE POWER	15,105	8,727	(6,378)	(42.2)	32
33	CAPTIVE POWER (TEXTILE)	12,531	12,320	(211)	(1.7)	33
34	ZERO-RATED INDUSTRIES	278	741	463	166.6	34
35	GENERAL INDUSTRIES (RLNG)	451	1,199	748	165.9	35
36	GENERAL INDUSTRIES	5,010	3,597	(1,413)	(28.2)	36
37						37
38	COMMERCIAL	1,671	1,451	(221)	(13.2)	38
39	COMMERCIAL (RLNG)	80	257	177	221.3	39
40	COMMERCIAL (SPRT)		29	29	100.0	40
41	DOMESTIC (RLNG)		29	29	100.0	41
42	DOMESTIC	26,839	28,998	2,159	8.0	42
43	SUB TOTAL 'B'	85,575	69,881	(15,694)	(18.3)	43
44						44
45	(C) BALOCHISTAN					45
46	TOTAL INDUSTRIAL	8,189	8,287	99	1.2	46
47	POWER - WAPDA	-	-	-	100.0	47
48	HABIBULLAH COASTAL POWER	6,481	3,650	(2,831)	(43.7)	48
49	HABIBULLAH COASTAL POWER (RLNG)		3,650	3,650	100.0	49
50	CNG STATIONS	1,129	560	(570)	(50.4)	50
51	CAPTIVE POWER	35	20	(15)	(43.3)	51
52	GENERAL INDUSTRIES	544	408	(136)	(24.9)	52
53						53
54	COMMERCIAL	1,147	711	(436)	(38.0)	54
55	COMMERCIAL (SPRT)		418	418	100.0	55
56	DOMESTIC	16,761	16,561	(200)	(1.2)	56
57	SUB TOTAL 'C'	26,097	25,978	(119)	(0.5)	57
58	GRAND TOTAL SALES (A+B+C+D)	399,611	400,928	1,317	0.3	58
59	TOTAL RLNG SALES	26,363	73,049	46,686	177.1	59
60	TOTAL NG SALES	373,249	327,879	(45,370)	(12.2)	60

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES

VOLUME IN MMCFD

VOLUME IN MMCF						
S.No.	CATEGORY	Determination ERR FY 2020-21	Petition ERR FY 2021-22	Variance Inc./(Dec.) Petition 2021-22 over Determination FY 2020-21	S.No.	
				%		
1	POWER	195.3	173.1	(22.2)	(11.3)	1
2	NOORIABAD POWER PLANT	18.4	16.7	(1.7)	(9.0)	2
3	HABIBULLAH COASTAL POWER	17.8	20.0	2.2	12.6	3
4	CEMENT	0.7	0.4	(0.3)	(44.9)	4
5	FERTILIZER - FEEDSTOCK	49.4	52.2	2.8	5.6	5
6	CNG STATIONS	68.8	42.0	(26.7)	(38.9)	6
7	CAPTIVE POWER	133.9	90.8	(43.1)	(32.2)	7
8	CAPTIVE POWER (Zero-rated)	113.1	136.8	23.7	20.9	8
9	INDUSTRIAL (Zero-rated)	53.4	134.5	81.1	151.9	9
10	GENERAL INDUSTRIES	123.8	97.2	(26.6)	(21.5)	10
11	COMMERCIAL	31.2	29.7	(1.5)	(4.8)	11
12	DOMESTIC	289.2	305.0	15.8	5.5	12
13	GRAND TOTAL SALES	1,094.8	1,098.4	3.6	0.3	13
14	TOTAL RLNG SALES	72.2	200.1	127.9	177.1	14
15	TOTAL NG SALES	1,022.6	898.3	(124.3)	(12.2)	15

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES

VOLUME IN MMCFD

S.No.	CATEGORY	Determination ERR FY 2020-21	Petition ERR FY 2021-22	Variance Inc./(Dec.) Petition 2021-22 over Determination FY 2020-21	S.No.
1	(A) KARACHI				1
2	TOTAL INDUSTRIAL	595.8	633.8	38 6.4	2
3	POWER - KE (NG)	116.0	50.1	(66) (56.8)	3
4	POWER - RLNG	60.0	123.0	63 105.0	4
5	CEMENT	0.6	0.3	(0) (48.4)	5
6	FERTILIZER - Feedstock	49.4	52.2	3 5.6	6
7	FERTILIZER - Power	1.6	1.1	(0) (29.6)	7
8	PAK STEEL	2.1	2.1	0 4.4	8
9	CNG STATIONS	38.7	1.4	(37) (96.3)	9
10	CNG STATIONS (RLNG)	-	22.1	22 100.0	10
11	CAPTIVE POWER	85.2	46.8	(38) (45.0)	11
12	CAPTIVE POWER (RLNG)	7.2	19.4	12 168.1	12
13	CAPTIVE POWER (Zero-rated)	78.8	103.0	24 30.8	13
14	INDUSTRIAL (Zero-rated)	52.6	132.5	80 151.7	14
15	GENERAL INDUSTRIES (RLNG)	1.3	2.4	1 85.8	15
16	GENERAL INDUSTRIES	102.4	77.2	(25) (24.6)	16
17					17
18	COMMERCIAL	21.0	18.9	(2) (10.4)	18
19	COMMERCIAL (RLNG)	2.2	2.5	0 10.4	19
20	COMMERCIAL (SPRT)	-	0.5	1 100.0	20
21	DOMESTIC (RLNG)	-	0.1	0 100.0	21
22	DOMESTIC	169.8	180.1	10 6.1	22
23	SUB TOTAL 'A'	788.9	835.8	46.9 5.9	23
24					24
25	(B) SINDH EXCLUDING KARACHI				25
26	TOTAL INDUSTRIAL	156.1	107.2	(49) (31.4)	26
27	POWER - WAPDA	19.2	-	(19) (100.0)	27
28	NOORIABAD POWER PLANT	18.4	16.7	(2) (9.0)	28
29	CEMENT	0.0	0.0	0 66.5	29
30	CNG STATIONS	27.0	1.0	(26) (96.4)	30
31	CNG STATIONS (RLNG)	-	16.0	16 100.0	31
32	CAPTIVE POWER	41.4	23.9	(17) (42.2)	32
33	CAPTIVE POWER (TEXTILE)	34.3	33.8	(1) (1.7)	33
34	ZERO-RATED INDUSTRIES	0.8	2.0	1 166.6	34
35	GENERAL INDUSTRIES (RLNG)	1.2	3.3	2 165.9	35
36	GENERAL INDUSTRIES	13.7	9.9	(4) (28.2)	36
37					37
38	COMMERCIAL	4.6	4.0	(1) (13.2)	38
39	COMMERCIAL (RLNG)	0.2	0.7	0 221.3	39
40	COMMERCIAL (SPRT)	-	0.1	0 100.0	40
41	DOMESTIC (RLNG)	-	0.1	0 100.0	41
42	DOMESTIC	73.5	79.4	6 8.0	42
43	SUB TOTAL 'B'	234.5	191.5	(43.0) (18.3)	43
44					44
45	(C) BALOCHISTAN				45
46	TOTAL INDUSTRIAL	22.4	22.7	0 1.2	46
47	POWER - WAPDA	-	-	- 100.0	47
48	HABIBULLAH COASTAL POWER	17.8	10.0	(8) (43.7)	48
49	HABIBULLAH COASTAL POWER (RLNG)	-	10.0	10 100.0	49
50	CNG STATIONS	3.1	1.5	(2) (50.4)	50
51	CAPTIVE POWER	0.1	0.1	(0) (43.3)	51
52	GENERAL INDUSTRIES	1.5	1.1	(0) (24.9)	52
53					53
54	COMMERCIAL	3.1	1.9	(1) (38.0)	54
55	COMMERCIAL (SPRT)	-	1.1	1 100.0	55
56	DOMESTIC	45.9	45.4	(1) (1.2)	56
57	SUB TOTAL 'C'	71.5	71.2	(0.3) (0.5)	57
58	GRAND TOTAL SALES (A+B+C+D)	1,094.8	1,098.4	3.6 0.3	58
59	TOTAL RLNG SALES	72.2	200.1	127.9 177.1	59
60	TOTAL NG SALES	1,022.6	898.3	(124.3) (12.2)	60

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES

ENERGY IN MMMBTU

S.No.	CATEGORY	Determination ERR FY 2020-21	Petition ERR FY 2021-22	Variance Inc./ (Dec.) Petition 2021-22 over Determination FY 2020-21	S.No.
				%	
1	POWER	70,297	65,286	(5,011) (7.1)	1
2	NOORIABAD POWER PLANT	6,466	5,979	(487) (7.5)	2
3	HABIBULLAH COASTAL POWER	6,248	7,154	906 14.5	3
4	CEMENT	233	131	(102) (44.0)	4
5	FERTILIZER - FEEDSTOCK	17,377	18,662	1,286 7.4	5
6	CNG STATIONS	24,201	16,081	(8,120) (33.6)	6
7	CAPTIVE POWER	47,254	33,027	(14,227) (30.1)	7
8	CAPTIVE POWER (Zero-rated)	39,805	48,933	9,128 22.9	8
9	INDUSTRIAL (Zero-rated)	18,785	48,111	29,326 156.1	9
10	GENERAL INDUSTRIES	43,599	34,921	(8,678) (19.9)	10
11	COMMERCIAL	11,030	10,716	(314) (2.9)	11
12	DOMESTIC	101,765	109,115	7,350 7.2	12
13	GRAND TOTAL SALES	387,058	398,115	11,057 2.9	13
14	TOTAL RLNG SALES	27,246	76,793	49,547 181.9	14
15	TOTAL NG SALES	359,812	321,321	(38,490) (10.7)	15

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES

ENERGY IN MMMBTU

S.No.	CATEGORY	Determination ERR FY 2020-21	Petition ERR FY 2021-22	Variance Inc./(Dec.) Petition 2021-22 over Determination FY 2020-21	S.No.
1	(A) KARACHI				1
2	TOTAL INDUSTRIAL	211,417	231,283	19,866	2
3	POWER - KE (NG)	40,820	17,921	(22,899)	3
4	POWER - RLNG	22,704	47,364	24,660	4
5	CEMENT	226	118	(107)	5
6	FERTILIZER - Feedstock	17,377	18,662	1,286	6
7	FERTILIZER - Power	553	396	(157)	7
8	PAK STEEL	722	766	44	8
9	CNG STATIONS	13,599	510	(13,089)	9
10	CNG STATIONS (RLNG)	-	8,522	8,522	10
11	CAPTIVE POWER	29,965	16,753	(13,212)	11
12	CAPTIVE POWER (RLNG)	2,693	7,456	4,763	12
13	CAPTIVE POWER (Zero-rated)	27,725	36,859	9,135	13
14	INDUSTRIAL (Zero-rated)	18,517	47,384	28,867	14
15	GENERAL INDUSTRIES (RLNG)	488	938	450	15
16	GENERAL INDUSTRIES	36,029	27,632	(8,398)	16
17					17
18	COMMERCIAL	7,405	6,744	(661)	18
19	COMMERCIAL (RLNG)	829	952	123	19
20	COMMERCIAL (SPRT)		192	192	20
21	DOMESTIC (RLNG)		22	22	21
22	DOMESTIC	59,734	64,415	4,681	22
23	SUB TOTAL 'A'	279,386	303,607	24,221	23
24					24
25	(B) SINDH EXCLUDING KARACHI				25
26	TOTAL INDUSTRIAL	54,951	38,880	(16,072)	26
27	POWER - WAPDA	6,772	-	(6,772)	27
28	NOORIBAD POWER PLANT	6,466	5,979	(487)	28
29	CEMENT	7	12	5	29
30	CNG STATIONS	9,513	350	(9,163)	30
31	CNG STATIONS (RLNG)		6,150	6,150	31
32	CAPTIVE POWER	14,562	8,553	(6,009)	32
33	CAPTIVE POWER (TEXTILE)	12,080	12,074	(6)	33
34	ZERO-RATED INDUSTRIES	268	727	459	34
35	GENERAL INDUSTRIES (RLNG)	453	1,264	812	35
36	GENERAL INDUSTRIES	4,830	3,525	(1,305)	36
37					37
38	COMMERCIAL	1,611	1,422	(190)	38
39	COMMERCIAL (RLNG)	79	271	192	39
40	COMMERCIAL (SPRT)		29	29	40
41	DOMESTIC (RLNG)		30	30	41
42	DOMESTIC	25,873	28,418	2,545	42
43	SUB TOTAL 'B'	82,515	69,049	(13,465)	43
44					44
45	(C) BALOCHISTAN				45
46	TOTAL INDUSTRIAL	7,894	8,122	228	46
47	POWER - WAPDA	-	-	-	47
48	HABIBULLAH COASTAL POWER	6,248	3,577	(2,671)	48
49	HABIBULLAH COASTAL POWER (RLNG)		3,577	3,577	49
50	CNG STATIONS	1,089	548	(540)	50
51	CAPTIVE POWER	34	20	(14)	51
52	GENERAL INDUSTRIES	524	400	(124)	52
53					53
54	COMMERCIAL	1,106	697	(409)	54
55	COMMERCIAL (SPRT)		410	410	55
56	DOMESTIC	16,158	16,230	72	56
57	SUB TOTAL 'C'	25,157	25,458	301	57
58	GRAND TOTAL SALES (A+B+C+D)	387,058	398,115	11,057	58
59	TOTAL RLNG SALES	27,246	76,793	49,547	59
60	TOTAL NG SALES	359,812	321,321	(38,490)	60

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES

Rupees Million

S.No.	CATEGORY	Determination ERR FY 2020-21	Petition ERR FY 2021-22	Variance Inc./(Dec.) Petition 2021-22 over Determination FY 2020-21		S.No.
					%	
1	POWER	79,143.160	80,699.454	1,556.294	2.0	1
2	NOORLABAD POWER PLANT	5,328.073	5,123.986	(204.087)	(3.8)	2
3	HABIBULLAH COASTAL POWER	5,147.982	8,000.096	2,852.114	55.4	3
4	CEMENT	297.399	166.686	(130.713)	(44.0)	4
5	FERTILIZER - FEEDSTOCK	5,212.950	5,636.054	423.104	8.1	5
6	CNG STATIONS	31,049.723	22,111.997	(8,937.726)	(28.8)	6
7	CAPTIVE POWER	50,243.881	38,160.270	(12,083.611)	(24.0)	7
8	CAPTIVE POWER (Zero-rated)	31,286.629	41,691.223	10,404.594	33.3	8
9	INDUSTRIAL (Zero-rated)	14,764.805	39,402.622	24,637.817	166.9	9
10	GENERAL INDUSTRIES	45,212.212	37,514.369	(7,697.842)	(17.0)	10
11	COMMERCIAL	14,217.055	13,498.111	(718.944)	(5.1)	11
12	DOMESTIC	42,796.165	47,260.480	4,464.315	10.4	12
13	Decrease in Sales Value and GDS due to Customers in Litigation	(522.287)		522.287	(100.0)	13
14	GRAND TOTAL SALES	324,177.746	339,265.348	15,087.602	4.7	14
15	TOTAL RLNG SALES	47,931.849	105,906.414	57,974.565	121.0	15
16	TOTAL NG SALES	276,245.897	233,358.935	(42,886.963)	(15.5)	16

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES

Rupees Million

		Rupees (Million)				
S.No.	CATEGORY	Determination ERR FY 2020-21	Petition ERR FY 2021-22	Variance Inc./(Dec.) Petition 2021-22 over Determination FY 2020-21	S.No.	
1	(A) KARACHI				1	
2	TOTAL INDUSTRIAL	207,146.977	229,248.673	22,101.696	10.7	2
3	POWER - KE (NG)	33,635.964	15,358.710	(18,277.254)	(54.3)	3
4	POWER - RLNG	39,926.751	65,340.744	25,413.994	63.7	4
5	CEMENT	288.315	151.310	(137.005)	(47.5)	5
6	FERTILIZER - Feedstock	5,212.950	5,636.054	423.104	8.1	6
7	FERTILIZER - Power	564.117	404.755	(159.362)	(28.2)	7
8	PAK STEEL	736.772	807.229	70.457	9.6	8
9	CNG STATIONS	17,448.094	688.593	(16,759.500)	(96.1)	9
10	CNG STATIONS (RLNG)	-	11,728.869	11,728.869	100.0	10
11	CAPTIVE POWER	30,594.745	18,210.538	(12,384.208)	(40.5)	11
12	CAPTIVE POWER (RLNG)	4,747.117	10,291.758	5,544.641	116.8	12
13	CAPTIVE POWER (Zero-rated)	21,791.476	31,404.205	9,612.729	44.1	13
14	INDUSTRIAL (Zero-rated)	14,554.106	38,807.517	24,253.411	166.6	14
15	GENERAL INDUSTRIES (RLNG)	860.519	1,294.527	434.009	50.4	15
16	GENERAL INDUSTRIES	36,786.051	29,123.863	(7,662.188)	(20.8)	16
17						17
18	COMMERCIAL	9,231.241	8,652.336	(578.905)	(6.3)	18
19	COMMERCIAL (RLNG)	1,460.316	1,313.128	(147.187)	(10.1)	19
20	COMMERCIAL (SPRT)		134.166	134.166	100.0	20
21	DOMESTIC (RLNG)		29.938	29.938	100.0	21
22	DOMESTIC	24,565.440	27,186.372	2,620.933	10.7	22
23	SUB TOTAL 'A'	242,403.973	266,564.613	24,160.641	10.0	23
24						24
25	(B) SINDH EXCLUDING KARACHI					25
26	TOTAL INDUSTRIAL	53,425.658	40,063.487	(13,362.171)	(25.0)	26
27	POWER - WAPDA	5,580.446	-	(5,580.446)	(100.0)	27
28	NOORIABAD POWER PLANT	5,328.073	5,123.986	(204.087)	(3.8)	28
29	CEMENT	9.084	15.375	6.292	69.3	29
30	CNG STATIONS	12,204.985	472.460	(11,732.525)	(96.1)	30
31	CNG STATIONS (RLNG)		8,470.177	8,470.177	100.0	31
32	CAPTIVE POWER	14,867.411	9,296.689	(5,570.723)	(37.5)	32
33	CAPTIVE POWER (TEXTILE)	9,495.153	10,287.018	791.865	8.3	33
34	ZERO-RATED INDUSTRIES	210.698	595.105	384.406	182.4	34
35	GENERAL INDUSTRIES (RLNG)	798.539	1,747.242	948.703	118.8	35
36	GENERAL INDUSTRIES	4,931.269	3,715.372	(1,215.897)	(24.7)	36
37						37
38	COMMERCIAL	2,008.658	1,824.031	(184.627)	(9.2)	38
39	COMMERCIAL (RLNG)	138.608	373.421	234.813	169.4	39
40	COMMERCIAL (SPRT)		20.073	20.073	100.0	40
41	DOMESTIC (RLNG)		41.938	41.938	100.0	41
42	DOMESTIC	10,619.876	12,171.695	1,551.819	14.6	42
43	SUB TOTAL 'B'	66,192.800	54,494.646	(11,698.155)	(17.7)	43
44						44
45	(C) BALOCHISTAN					45
46	TOTAL INDUSTRIAL	7,114.178	9,194.597	2,080.419	29.2	46
47	POWER - WAPDA	-	-	-	100.0	47
48	HABIBULLAH COASTAL POWER	5,147.982	3,065.489	(2,082.493)	(40.5)	48
49	HABIBULLAH COASTAL POWER (RLNG)		4,934.607	4,934.607	100.0	49
50	CNG STATIONS	1,396.644	751.897	(644.747)	(46.2)	50
51	CAPTIVE POWER	34.607	21.223	(13.384)	(38.7)	51
52	GENERAL INDUSTRIES	534.945	421.381	(113.564)	(21.2)	52
53						53
54	COMMERCIAL	1,378.233	894.122	(484.111)	(35.1)	54
55	COMMERCIAL (SPRT)		286.834	286.834	100.0	55
56	DOMESTIC	7,610.849	7,830.536	219.687	2.9	56
57	SUB TOTAL 'C'	16,103.260	18,206.089	2,102.829	13.1	57
58	(D) Decrease in Sales Value and GDS due to Customers in Litigation	(522.287)	-	522.287	(100.0)	58
59	GRAND TOTAL SALES (A+B+C+D)	324,177.746	339,265.348	15,087.602	4.7	59
60	TOTAL RLNG SALES	47,931.849	105,906.414	57,974.565	121.0	60
61	TOTAL NG SALES	276,245.897	233,358.935	(42,886.963)	(15.5)	61

SUI SOUTHERN GAS COMPANY LIMITED
GAS DEVELOPMENT SURCHARGE (GDS)

Rupees Million

S.No.	CATEGORY	Determination ERR FY 2020-21	Petition ERR FY 2021-22	Variance Inc./ (Dec.) Petition 2021-22 over Determination FY 2020-21		S.No
					%	
1	POWER	1,407.317	1,088.372	(318.945)	(22.7)	1
2	NOORIABAD POWER PLANT	191.203	363.103	171.901	89.9	2
3	HABIBULLAH COASTAL POWER	184.740	217.231	32.491	17.6	3
4	CEMENT	10.613	5.609	(5.004)	(47.1)	4
5	FERTILIZER - FEEDSTOCK	(7,979.984)	37.325	8,017.309	(100.5)	5
6	CNG STATIONS	1,095.332	166.688	(928.644)	(84.8)	6
7	CAPTIVE POWER	1,597.957	2,541.380	943.423	59.0	7
8	CAPTIVE POWER (Zero-rated)	1,122.497	4,523.889	3,401.392	303.0	8
9	INDUSTRIAL (Zero-rated)	529.730	2,860.178	2,330.449	439.9	9
10	GENERAL INDUSTRIES	1,529.693	2,191.298	661.605	43.3	10
11	COMMERCIAL	389.947	382.591	(7.356)	(1.9)	11
12	DOMESTIC	(9,787.044)	451.802	10,238.846	(104.6)	12
13	Decrease in Sales Value and GDS due to Customers in Litigation	(522.287)		522.287	(100.0)	13
14	GRAND TOTAL SALES	(10,230.287)	14,829.466	25,059.753	(245.0)	14

SUI SOUTHERN GAS COMPANY LIMITED
GAS DEVELOPMENT SURCHARGE (GDS)

Rupees Million

S.No.	CATEGORY	Determination ERR FY 2020-21	Petition ERR FY 2021-22	Variance Inc./(Dec.) Petition 2021-22 over Determination FY 2020-21	S.No.	
1	<u>(A) KARACHI</u>				1	
2	<u>TOTAL INDUSTRIAL</u>	(2,430.857)	11,019.741	13,450.599	(553.3)	2
3	POWER - KE (NG)	1,207.058	1,088.372	(118.686)	(9.8)	3
4	CEMENT	10.289	5.091	(5.197)	(50.5)	4
5	FERTILIZER - Feedstock	(7,979.984)	37.325	8,017.309	(100.5)	5
6	FERTILIZER - Power	19.813	14.382	(5.431)	(27.4)	6
7	PAK STEEL	25.877	51.581	25.704	99.3	7
8	CNG STATIONS	615.511	56.194	(559.317)	(90.9)	8
9	CAPTIVE POWER	1,074.562	1,681.166	606.604	56.5	9
10	CAPTIVE POWER (Zero-rated)	781.832	3,407.651	2,625.820	335.9	10
11	INDUSTRIAL (Zero-rated)	522.170	2,816.980	2,294.810	439.5	11
12	GENERAL INDUSTRIES	1,292.015	1,860.998	568.983	44.0	12
13						13
14	COMMERCIAL	285.280	291.131	5.852	2.1	14
15	DOMESTIC	(5,982.901)	261.093	6,243.994	(104.4)	15
16	SUB TOTAL 'A'	(8,128.479)	11,571.965	19,700.444	(242.4)	16
17						17
18	<u>(B) SINDH EXCLUDING KARACHI</u>					18
19	<u>TOTAL INDUSTRIAL</u>	1,865.941	2,657.278	791.337	42.4	19
20	POWER - WAPDA	200.259	-	(200.259)	(100.0)	20
21	NOORABAD POWER PLANT	191.203	363.103	171.901	89.9	21
22	CEMENT	0.324	0.517	0.193	59.6	22
23	CNG STATIONS	430.552	38.556	(391.995)	(91.0)	23
24	CAPTIVE POWER	522.180	858.255	336.075	64.4	24
25	CAPTIVE POWER (TEXTILE)	340.666	1,116.238	775.572	227.7	25
26	ZERO-RATED INDUSTRIES	7.559	43.198	35.638	471.4	26
27	GENERAL INDUSTRIES	173.198	237.410	64.212	37.1	27
28						28
29	COMMERCIAL	62.075	61.374	(0.701)	(1.1)	29
30	DOMESTIC	(2,636.471)	116.032	2,752.503	(104.4)	30
31	SUB TOTAL 'B'	(708.455)	2,834.684	3,543.139	(500.1)	31
32						32
33	<u>(C) BALOCHISTAN</u>					33
34	<u>TOTAL INDUSTRIAL</u>	254.013	318.054	64.041	25.2	34
35	POWER - WAPDA	-	-	-	-	35
36	HABIBULLAH COASTAL POWER	184.740	217.231	32.491	17.6	36
37	CNG STATIONS	49.269	71.937	22.669	46.0	37
38	CAPTIVE POWER	1.215	1.959	0.744	61.2	38
39	GENERAL INDUSTRIES	18.789	26.926	8.137	43.3	39
40						40
41	COMMERCIAL	42.593	30.085	(12.507)	(29.4)	41
42	DOMESTIC	(1,167.672)	74.678	1,242.350	(106.4)	42
43	SUB TOTAL 'C'	(871.066)	422.817	1,293.883	(148.5)	43
44	(D) Decrease in Sales Value and GDS due to Customers in Litigation	(522.287)	-	522.287	(100.0)	44
45	GRAND TOTAL SALES (A+B+C+D)	(10,230.287)	14,829.466	25,059.753	(245.0)	45

Table # B-4.1

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

MMCF

S.No.	Description	ERR Determination FY 2020-21	Review ERR Petition FY 2020-21	Review ERR Petition FY 2020-21 With Volume Handled	ERR Petition FY 2021-22	ERR Petition FY 2021-22 With Volume Handled	S.No.
1	Gross Purchases	425,848	421,766	421,766	371,680	371,680	1
2	Purchases - RLNG held stock		33,046	33,046	85,860	85,860	2
3	Gas handled on behalf of SNGPL / LNG Allocation as per GOP directives			407,643		352,140	3
4	Gross Purchases	425,848	454,812	862,455	457,539	809,680	4
5	Gas Consumed Internally - metered	713	2,933	2,933	2,746	2,746	5
6	Available for Sale	425,135	451,879	859,522	454,794	806,934	6
7							7
8	Gas Sales	355,337	369,336	369,336	327,879	327,879	8
9	Net Sales - RLNG held stock	-	28,698	28,698	73,049	73,049	9
10	Deemed Sales - (recovered from RLNG customer through pricing)		2,266	2,266	11,214	11,214	10
11	Gas handled on behalf of SNGPL / LNG Allocation as per GOP directives			407,643		352,140	11
12	Add: Gas Shrinkage	2,322	2,783	2,783	40	40	12
13		357,659	403,084	810,726	412,182	764,322	13
14							14
15	Gas Unaccounted For	67,476	48,796	48,796	42,612	42,612	15
16	Gas Unaccounted For (%)	15.85%	10.73%	5.66%	9.31%	5.26%	16
17							17
18	Disallowed volumes - MMCF	40,647	20,143	-	13,787	-	18
19	Allowable Gas Unaccounted For	26,828	28,653	54,335	28,825	51,010	19
20	Effective UFG Benchmark (i)	6.30%	i) 6.30%	6.30%	i) 6.30%	6.30%	20
21	WACOG - Rs per MCF	467.83	ii) 467.83	467.83	ii) 467.83	467.83	21
22	Disallowed value over & above UFG targets - Rs Million	19,016	iii) 9,423	-	iii) 6,450	-	22
23	UFG adjustments on RLNG volume handled basis			9,423		6,450	23

Note:-

- (i) Adjusted on the basis of UFG study while claiming benchmark at 6.30%.
(ii) Rate as per determination for FY 2020-21 dated 14 July 2020, may change as per OGRA determination for FY 2021-22.
(iii) Disallowance for indigenous gas should not be more than Rs 750 million as per rule 20(1) of Natural Gas
Tariff Rule 2002.

SUI SOUTHERN GAS COMPANY LIMITED
TRANSMISSION AND DISTRIBUTION COST

Rupees Million

S.No.	DESCRIPTION	Determination ERR FY 2020-21	Review Petition ERR FY 2020-21	Petition ERR FY 2021-22	Variance Inc./ (Dec.)		S.No.
						%	
1.a	Salaries, wages, and benefits	12,497.000	17,312.000	17,312.000	4,815.000	38.5	1.a
1.b	Third party/ casual workers existing cost re-classification from repair & maintenance			1,322.000	1,322.000		1.b
1.c	Incremental impact of third party/ casual workers induction			1,178.000	1,178.000		1.c
1	Sub-total HR cost	12,497.000	17,312.000	19,812.000	7,315.000	58.5	1
2	Gas consumed internally	364.730	572.688	677.463	312.733	85.7	2
3	Other T&D Cost						3
4.a	Printing & Stationery			23.000			4.a
4.b	Gas Bill Printing Charges			86.000			4.b
4.c	Stores & spares consumed			1,299.000			4.c
4	Sub-total stores, spares, stationary and gas bill printing	798.000	1,361.000	1,408.000	610.000	76.4	4
5	Material used on consumers installations	39.000	39.000	36.000	(3.000)	(7.7)	5
6	Electricity	278.000	352.000	290.000	12.000	4.3	6
7	Rent, rate & taxes	288.000	288.000	279.667	(8.333)	(2.9)	7
8	Traveling	120.000	120.000	121.254	1.254	1.0	8
9	Insurance & royalty	136.500	136.500	131.962	(4.538)	(3.3)	9
10.a	Postage & revenue stamps			18.000			10.a
10.b	Bill delivery through contractor			127.000			10.b
10	Sub-total postage & bill delivery	113.000	113.000	145.000	32.000	28.3	10
11.a	Repairs & Maintenance			1,147.495			11.a
11.b	Software development & maintenance			220.000			11.b
11	Sub-total repair & maintenance	1,567.000	2,728.488	1,367.495	(199.505)	(12.7)	11
12	Legal & Professional Charges	129.000	129.000	140.000	11.000	8.5	12
13	License Fee to OGRA	211.533	161.803	283.374	71.841	34.0	13
14	Meter reading by contractors	90.000	90.000	130.000	40.000	44.4	14
15	Collecting agent commission	3.000	3.000	3.000	-	-	15
16	Security expenses	746.000	746.000	785.000	39.000	5.2	16
17	Gas bills collection charges	229.468	271.462	271.157	41.689	18.2	17
18	Advertisement	120.000	120.000	164.000	44.000	36.7	18
19	Communication	35.000	35.000	34.000	(1.000)	(2.9)	19
20	Others	122.403	122.403	103.000	(19.403)	(15.9)	20
21	Sub-total other T&D cost	5,025.904	6,816.656	5,692.909	667.005	13.3	21
22	GROSS T&D COST	17,887.634	24,701.344	26,182.372	8,294.738	46.4	22
23	Less: Recoveries / Allocations	2,079.170	2,079.170	2,051.534	(27.636)	(1.3)	23
24	Net Transmission & Distribution Cost	15,808.464	22,622.174	24,130.839	8,322.374	52.6	24
25	Add: Project Cost						25
26	Revenue expenditure relating to LNG	214.000	263.730	217.583	3.583	1.7	26
27	RLNG - Gas Consumed Internally	-	1,709.389	2,051.595	2,051.595	100.0	27
28	Sub-total project cost	214.000	1,973.119	2,269.178	2,055.178	960.4	28
29	Net Transmission & Distribution Cost including LNG Expenses	16,022.464	24,595.294	26,400.017	10,377.553	64.8	29
30	POLICY CHANGE PURSUANT TO APPLICATION OF IFRIC4						
31	Less:						31
32	# Recovery of service cost (gas transportation)	214.689	264.419	281.860	67.171	31.3	32
33	Total	15,807.775	24,330.874	26,118.156	10,310.382	65.2	33

Note:- # Treatment pursuant to IFRIC-4.

+ Benchmark.
++ Company's best estimates.

Table # B-6

SUI SOUTHERN GAS COMPANY LIMITED
SCHEDULE OF DEPRECIATION

Rupees Million

S.No.	DESCRIPTION	Determination ERR FY 2020-21	Review Petition ERR FY 2020-21	Petition ERR FY 2021-22	Variance Inc./(Dec.)		S.No.
						%	
1	Building	50.648	50.648	80.863	30.216	59.7	1
2	Roads, pavements and related infrastructures	31.263	31.263	39.934	8.671	27.7	2
3	Gas transmission pipelines	777.697	777.697	645.715	(131.981)	(17.0)	3
4	Compressors	41.733	41.733	305.679	263.946	632.5	4
5	Plant and Machinery	161.467	172.956	322.323	160.856	99.6	5
6	Gas distribution systems	5,333.591	5,374.966	5,520.193	186.602	3.5	6
7	Office Furniture, equipment & computer	182.083	220.540	227.411	45.328	24.9	7
8	Computer Software (Intangible)	29.050	50.214	134.074	105.024	361.5	8
9	LPG Air Mix Projects	105.603	105.603	90.620	(14.983)	(14.2)	9
10	Telecommunication system	64.194	64.194	62.589	(1.605)	(2.5)	10
11	Appliances, loose tools and equipments	6.146	47.199	101.498	95.352	1,551.3	11
12	Vehicles	185.064	195.348	277.583	92.519	50.0	12
13	Construction equipment	66.527	90.714	121.642	55.115	82.8	13
14	SCADA	59.786	59.786	76.583	16.798	28.1	14
15		7,094.852	7,282.861	8,006.708	911.857	12.9	15
16	Less: Meter Manufacturing Plant	14.469	14.469	29.660	15.191	105.0	16
17	LPG Air Mix Projects	105.603	105.603	90.620	(14.983)	(14.2)	17
18	Depreciation charge to capital projects	66.527	90.714	121.642	55.115	82.8	18
19		186.599	210.786	241.922	55.323	29.6	19
20		6,908.253	7,072.075	7,764.787	856.533	12.4	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	Total	6,847.324	7,011.146	7,703.858	856.533	12.5	23

Note:- # Treatment pursuant to IFRIC-4.

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	Variance Inc./ (Dec.)		S.No.
1					%	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	67.171	31.288	4
5	Depreciation	60.929	60.929	-	-	5
6	Return as financial income	29.913	26.547	(3.366)	(11.253)	6
7		305.531	369.336	63.805	20.883	7

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

S.No.	DESCRIPTION		Petition ERR FY 2021-22	S.No.
			(MMCFD)	0
1	Total Capacity of the transportation pipeline	A	1,200.00	1
2	Shipper's Contracted Capacity	B	1,200.00	2
3	Capacity actually operated by the transporter	C	1,200.00	3
4	Capacity actually utilized by the Shipper	D	1,200.00	4
5				5
6	TRANSPORTATION COST	(Million Rupees)		6
7	Fixed Costs:			7
8	Operating and maintenance cost		28.756	8
9	Depreciation on book value of the segment		1,467.301	9
10	ROA on book value of the segment		5,135.616	10
11		E	6,631.673	11
12	Variable Costs:			12
13	Compression fuel		2,051.595	13
14	WPPF		556.733	14
15	Other variable expenses, if any		188.827	15
16		F	2,797.156	16
17	TRANSPORTATION TARIFF			17
18	Capacity charges based on Shipper's contracted capacity against total capacity	$G=E*B/A$	6,631.673	18
19				19
20	Commodity charges based on volume actually transported against actually operated	$H=F*D/C$	2,797.156	20
21				21
22	Total Tariff for the year ✦	I	9,428.828	22
23				23
24	Monthly Tariff	J	785.736	24
25				25
26	Total volume Transported per month - MMBT	$K=D*30$	36,000	26
27				27
28	Transportation Tariff Rs. / MCF	$L=J/K*1000$	21.83	28
29				29
30	Transportation Tariff Rs. / MMBTU {Rate per MMBTU= Rs./MCF*1000/GCV}	$M=L*1000/1055$	20.69	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.	CATEGORY	Determination ERR FY 2020-21	Review ERR FY 2020-21	Petition ERR FY 2021-22	NG Customers	RLNG Customers	Variance Inc./ (Dec.) Petition 2021-22 over Determination FY 2020-21		S.No.
							d-b	%	
1	Domestic	792.292	✦ 1,426.796	1,620.022	1,613.782	6.240	821.490	103.7	1
2	Commercial	28.699	28.699	35.035	28.699	6.336	-	-	2
3	Industrial	33.846	33.846	37.863	29.230	8.633	(4.615)	(13.6)	3
4	Total	854.837	1,489.341	1,692.920	1,671.711	21.209	816.874	95.6	4

Note:- ✦ Change due to revised Meter Rental fixed charges as per MoE directives.

SUI SOUTHERN GAS COMPANY LIMITED
DEFERRED CREDIT

Rupees Million

S.No.	DESCRIPTION	Determination ERR FY 2020-21	Review Petition ERR FY 2020-21	Petition ERR FY 2021-22	Variance Inc./ (Dec.)		S.No.
1						%	1
2	Opening as at 01st July	5,117.706	5,117.706	5,258.260	140.554	2.7	2
3							3
4	Addition during the year	701.861	714.905	757.736	55.875	8.0	4
5		5,819.567	5,832.611	6,015.996	196.429	3.4	5
6	Amortization of Deferred Credit						6
7	Amortization as on 30th June	526.214	526.214	589.584	63.370	12.0	7
8	On addition @ 5%	35.093	35.745	37.887	2.794	8.0	8
9		561.307	561.959	627.471	66.163	11.8	9
10	Closing as at 30th June	5,258.260	5,270.652	5,388.525	130.265	2.5	10

Note:- Amortization of deferred credit related to :

Gas Activity	529.618	530.270	595.697
LPG Air Mix Projects	31.689	31.689	31.773
Total	561.307	561.959	627.471

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

S.No.	DESCRIPTION	Determination ERR FY 2020-21	Petition ERR FY 2021-22	Variance Inc./Dec.)		S.No.
					%	
1	REVENUE FROM SALES OF LPG	★	★★			1
2	Sale of LPG	1,923.521		(1,923.521)	(100.0)	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		(1,110.835)	(100.0)	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	14.159	242.8	14
15	Less: Other charges	26.967	29.227	2.260	8.4	15
16	NET INCOME FROM CONDENSATE	(21.134)	(9.235)	11.899	(56.3)	16
17	50% Allowed	(10.567)	(4.617)	5.950	(56.3)	17
18						18
19	TOTAL NET INCOME FROM LPG, NGL & CONDI	3,013.222	(9.235)	(3,022.457)	(100.3)	19
20	50% Allowed	1,506.611	(4.617)	(1,511.228)	(100.3)	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 JJVL 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.

SUI SOUTHERN GAS COMPANY LIMITED

LATE PAYMENT SURCHARGE

S.No.	CATEGORY	Determination ERR FY 2020-21	Petition ERR FY 2021-22	Rupees Million		S.No.
				Variance Inc./ (Dec.) Petition 2021-22 over Determination FY 2020-21	%	
1	Domestic	851.371	879.541	28.170	3.3	1
2	Commercial	72.262	72.262	-	-	2
3	Industrial	85.515	73.854	(11.661)	(13.6)	3
4	<u>Major outstanding</u>					4
5	DHA COGEN	209.551		(209.551)	(100.0)	5
6	IPP Vs CPP Litigation Cases	18.376		(18.376)	(100.0)	6
7	Others Gen.Ind. Litigation Cases	10.999		(10.999)	(100.0)	7
8	HABIBULLAH COASTAL	+	-	-		8
9	Total	1,248.075	1,025.657	(222.418)	(0.2)	9

Note:- + Not recorded LPS consequent upon arbitral award.

SUI SOUTHERN GAS COMPANY LIMITED
METER MANUFACTURING PROFIT

S.No.	DESCRIPTION	Determination ERR FY 2020-21 dt:14.07.2020	Petition ERR FY 2021-22	Variance Inc./Dec.) ERR Petition FY 2021-22 over Determination FY 2020-21	%	S.No.
1	Quantity in Numbers					1
2	NO. OF METERS PRODUCED	1,218,123	744,100	(474,023)	(38.9)	2
3						3
4	SNGPL	350,000	200,000	(150,000)	(42.9)	4
5	OTHERS	-	8,000	8,000		5
6	TOTAL OUTSIDE SALE	350,000	208,000	(142,000)	(40.6)	6
7	COMPANY OWN CONSUMPTION	868,123	536,100	(332,023)	(38.2)	7
8	TOTAL SALE (NOS.)	1,218,123	744,100	(474,023)	(38.9)	8
9						9
10	Rupees Million					10
11	COMPANY'S CONSUMPTION	3,068.141	1,785.600	(1,282.541)	(41.8)	11
12	OUTSIDE SALE	1,337.029	574.923	(762.106)	(57.0)	12
13	NET SALES	4,405.170	2,360.524	(2,044.646)	(46.4)	13
14	MATERIAL CONSUMED	3,618.127	1,627.852	(1,990.275)	(55.0)	14
15	LABOUR & OVERHEAD	715.081	643.793	(71.288)	(10.0)	15
16	DEPRECIATION	14.469	29.660	15.191	105.0	16
17	AVAILABLE FOR SALE	4,347.677	2,301.305	(2,046.372)	(47.1)	17
18	OPERATING PROFIT	57.493	59.219	1.726	3.0	18

SUI SOUTHERN GAS COMPANY LIMITED
OTHER INCOME

Rupees Million

S.No.	DESCRIPTION	ERR 2020-21 Related to Natural Gas Customers	ERR 2020-21 Related to LNG Customers	ERR 2021-22 Related to Natural Gas Customers	ERR 2021-22 Related to LNG Customers	Variance Inc./(Dec.)		S.No.
							%	
1	Profit/Interest on term deposits	68.085		54.694		(13.391)	(19.7)	1
2	Interest income on loan to related party	122.361		156.382		34.021	27.804	2
3	Interest income from KESC / WAPDA	224.719		399.071		174.352	77.6	3
4	Interest income from JJVL	-		-		-	-	4
5	Interest income & others from SNGPL	1,135.000	135.732	1,138.979	135.732	3.979	0.6	5
6	Interest income from SSGC LPG Pvt. Ltd. *	-		0.770		0.770	156.2	6
7	Income for receivable against asset contribution	37.617		32.026		(5.591)	(15.3)	7
8	Amortization of Government grant	85.000		46.008		(38.992)	(45.9)	8
9	Recoveries from consumers	97.886		86.000		(11.886)	(12.1)	9
10	Dividend Income	7.503		11.298		3.795	50.6	10
11	Liquidated damages recovered	140.000		74.598		(65.403)	(46.7)	11
12	Income from sale of tender documents	6.063		5.837		(0.226)	(3.7)	12
13	Advertising income	1.402		-		(1.402)	(26.7)	13
14	Income from net investment in finance lease	29.913		26.547		(3.366)	(9.3)	14
15	Income from new service connection	762.488		-		(762.488)	(98.5)	15
16	Income from Pipeline Construction	28.164		30.000		1.836	6.5	16
17	Margin for LSA Management	-	938.502	-	1,103.013	-	-	17
18	Others	20.000		30.000		10.000	50.0	18
19	TOTAL	2,766.201	1,074.234	2,097.851	1,238.745	(668.350)	(26.6)	19
20	NON-OPERATING INCOME							20
21	Profit/Interest on term deposits	68.085	-	54.694	-	(13.391)	(19.7)	21
22	Interest income from KESC / WAPDA	-	-	-	-	-	-	22
23	Interest income from JJVL	-	-	-	-	-	-	23
24	Interest income & others from SNGPL	-	135.732	-	135.732	-	-	24
25	Interest income from SSGC LPG Pvt. Ltd. *	-	-	0.770	-	0.770	156.2	25
26	Interest on short term loan to subsidiary	122.361	-	156.382	-	34.021	27.8	26
27	Income for receivable against asset contribution	37.617	-	32.026	-	(5.591)	(15.3)	27
28	Amortization of Government grant	85.000	-	46.008	-	(38.992)	(45.9)	28
29	Advertising income	1.402	-	-	-	(1.402)	0.0	29
30	Dividend Income	7.503	-	11.298	-	3.795	50.6	30
31	Liquidated damages recovered - 50%	70.000	-	37.299	-	(32.701)	(46.7)	31
32	Income from Pipeline Construction - 50%	14.082	-	15.000	-	0.918	6.5	32
33	Margin for LSA Management	-	938.502	-	1,103.013	-	-	33
34	TOTAL	406.050	1,074.234	353.476	1,238.745	(52.574)	(3.5)	34
*35	NET OF NON-OPERATING INCOME	2,360.151	-	1,744.375	-	(615.776)	(60.1)	35

SUI SOUTHERN GAS COMPANY LIMITED
OTHER CHARGES

OTHER CHARGES

S.No.	DESCRIPTION	Determination ERR FY 2020-21 dt:-14-07-2020	Review Petition ERR FY 2020-21			Petition ERR 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		
1	Profit before tax & other charges	(12,919.449)	(3,142.002)	16,250.806	4,239.985	13,353.177	1	
2	Less: Air Mix LPG projects profit	264.719	264.719		167.199		2	
3	Profit before tax & other charges	(13,184.168)	(3,406.720)	16,250.806	4,072.786	13,353.177	3	
4	<u>Less:</u>						4	
5	Financial charges	8,373.131	8,373.131	3,064.389	3,921.263	2,218.522	5	
6	Sports club expenses	110.000	110.000		120.000		6	
7	Corporate social responsibility	90.000	90.000		98.000		7	
8	Provision against impaired debts and other receivables	1,346.832	1,346.832		1,216.000		8	
9	Other / auditors' fees	25.000	25.000		25.000		9	
10		9,944.963	9,944.963	3,064.389	5,380.263	2,218.522	10	
11	Sub-total operating profit	(23,129.131)	(13,351.683)	13,186.417	(1,307.477)	11,134.655	11	
12	WPPF	-	-	659.321	-	556.733	12	
13	Add: Other / auditors' fees	1,571.832	1,571.832	-	1,459.000	-	13	
14	Total Other Charges	1,571.832	1,571.832	659.321	1,459.000	556.733	14	
15	<u>Less: Non-admissible</u>						15	
16	Sports club expenses	(55.000)	(55.000)	-	(60.000)	-	16	
17	Corporate social responsibility	(45.000)	(45.000)	-	(49.000)	-	17	
18	Provision against impaired debts and other receivables	(229.000)	(229.000)				18	
19	Sub-total non-admissible	(329.000)	(329.000)	-	(109.000)	-	19	
20	Net Other Charges	1,242.832	1,242.832	659.321	1,350.000	556.733	20	

SUI SOUTHERN GAS COMPANY LIMITED

FINANCIAL CHARGES

Rupees Million

S.No.	DESCRIPTION	Determination ERR FY 2020-21	Petition ERR FY 2021-22	Variance Inc./ (Dec.)		S.No.
					%	
1	Consumer Financing	2.220	2.220	-	-	1
2	Credit Allocation / New Loans	3,481.667	1,678.333	(1,803.333)	(154.7)	2
3	Short term borrowing	3,000.000	1,902.500	(1,097.500)	(74.7)	3
4	Local Bank Loans	4,949.218	2,218.522	(2,730.696)	(58.1)	4
5	Government of Sindh Loans	9.000	15.960	6.960	43.6	5
6	Gross Financial Charges	11,442.104	5,817.535	(5,624.569)	(76.5)	6
7				-		7
8	<u>LESS: INTEREST CAPITALIZED</u>	843.088	428.653	(414.435)	(54.1)	8
9						9
10	<u>ADD: INTEREST ON OTHER CHARGES</u>					10
11	Consumer Deposits	492.503	492.503	-	-	11
12	Others	346.000	258.400	(87.600)	(27.5)	12
13		838.503	750.903	(87.600)	(11.4)	13
14	TOTAL FINANCIAL CHARGES	11,437.519	6,139.785	(5,297.734)	(72.1)	14
15	Less: Financial charges related to RLNG	3,064.389	2,218.522	(845.866)	(28.5)	15
16	NET FINANCIAL CHARGES	8,373.131	3,921.263	(4,451.867)	(101.6)	16

SUI SOUTHERN GAS COMPANY LIMITED
ADDITION TO FIXED AND INTANGIBLE ASSETS

Rupees Million

S.No.	DESCRIPTION	Determination ERR FY 2020-21	Review Petition ERR FY 2020-21	Petition ERR FY 2021-22	Variance Inc./ (Dec.)		S.No.
						%	
1	Land	-	-	-	-	-	1
2	Buildings	46.893	46.893	275.224	228.331	486.9	2
3	Gas Transmission Pipeline	1,341.000	1,341.000	10,522.154	9,181.154	684.6	3
4	Compressors	615.000	615.000	2,786.232	2,171.232	353.0	4
5	Plant and machinery	212.000	457.360	1,366.385	1,154.385	544.5	5
6	Gas distribution system and related facilities & equipments	5,421.000	7,076.000	11,559.156	6,138.156	113.2	6
7	Furniture, equipment including computers & allied equipments	136.000	410.737	332.999	196.999	144.9	7
8	Computer Software (Intangible)	36.000	163.000	558.500	522.500	1,451.4	8
9	LPG Air Mix Projects	16.000	16.000	9.780	(6.220)	(38.9)	9
10	Telecommunication system	61.000	61.000	70.250	9.250	15.2	10
11	Appls., loose tools & equipt.	28.000	274.390	284.400	256.400	915.7	11
12	Vehicles	219.000	327.255	888.880	669.880	305.9	12
13	Construction equipment & vehicles	44.000	298.600	225.000	181.000	411.4	13
14	SCADA			44.750	44.750	-	14
15	TOTAL	8,175.893	11,087.235	28,923.710	20,747.817	253.8	15
16	RLNG	-	-	3,541.511	3,541.511	-	16
17	GRAND TOTAL	8,175.893	11,087.235	32,465.221	24,289.328	297.1	17

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

		DERR 2020-21 Related to Natural Gas Customers			DERR 2020-21 Related to LNG Customers			Motion for Review ERR 2020-21 Related to Natural Gas Customers			Motion for Review ERR 2020-21 Related to LNG Customers			ERR 2021-22 Related to Natural Gas Customers			ERR 2021-22 Related to LNG Customers			Rs Million
S.No.	DESCRIPTION	Opening Balances	Addition	Closing Balances	Opening Balances	Addition	Closing Balances	Opening Balances	Addition	Closing Balances	Opening Balances	Addition	Closing Balances	Opening Balances	Addition	Closing Balances	Opening Balances	Addition	Closing Balances	S.No.
1	OVERALL																			1
2	COST	134,140,769	8,175,593	142,316,602	36,497,309	-	36,497,309	134,140,769	11,087,235	145,227,944	36,497,309	-	36,497,309	142,316,602	28,423,710	171,240,312	36,497,309	3,541,511	40,038,820	2
3	DEP	87,525,676	6,847,324	94,373,000	5,505,707	1,622,981	7,128,688	87,525,676	7,282,861	94,808,537	5,505,707	1,622,981	7,128,688	84,372,850	8,094,708	92,379,759	3,128,688	1,405,187	8,633,881	3
4	WDV	46,615,033		47,943,601	30,991,602		29,368,622	46,615,033		50,419,407	30,991,602		29,368,622	47,943,601		48,960,403	39,348,877		31,414,013	4
5	LPG Air Mix Assets																			5
6	COST	3,298,795	16,080	3,314,795				3,298,795	16,080	3,314,795				3,314,795	9,780	3,324,575				6
7	DEP	671,450	105,603	777,053				671,450	105,603	777,053				777,053	90,620	867,673				7
8	WDV	2,637,345		2,537,742				2,627,345		2,537,742				2,537,742		2,456,902				8
9	Metro Manufacturing Plant																			9
10	COST	711,809	-	711,809				711,809	-	711,809				711,809	47,950	759,759				10
11	DEP	461,037	14,469	475,506				461,037	14,469	475,506				475,506	29,660	505,165				11
12	WDV	258,772		258,772				250,772		256,303				236,303		254,594				12
13	Assets related to LHF (Condensate)																			13
14	COST	57,799	-	57,799				57,799	-	57,799				57,799	-	57,799				14
15	DEP	50,385		50,385				50,385		50,385				50,385		50,385				15
16	WDV	7,414		7,414				7,414		7,414				7,414		7,414				16
17	FETPL																			17
18	COST							1,115,844		1,115,844				1,115,844		1,115,844			1,115,844	18
19	DEP							146,454		174,350				146,454		174,350			174,350	19
20	WDV							969,390		961,494				969,390		941,494			941,494	20
21	Assets related to LPG Assets and Meter Manufacturing Plant																			21
22	COST	4,084,403		4,084,403				4,084,403		4,084,403				4,084,403		4,142,133			4,115,844	22
23	DEP	1,182,873		1,302,944				1,302,944		1,302,944				1,302,944		1,423,224			1,115,844	23
24	WDV	2,885,531		2,781,459				2,781,459		2,781,459				2,781,459		2,718,910			2,627,246	24
25	Fixed assets related to gas activities																		913,198	25
26	COST	130,072,305		138,232,198				138,232,198		141,143,560				35,381,465		167,098,178			34,381,465	26
27	DEP	86,342,804		93,070,056				93,070,056		93,595,593				5,359,253		100,956,485			6,954,338	27
28	WDV	43,759,582		45,162,142				45,162,142		47,637,948				30,022,212		66,141,693			8,453,643	28
29	OVERALL																		34,601,313	29
30	Net assets at beginning			46,615,033				30,991,602		46,615,033				30,991,602		47,942,601			29,368,622	30
31	Net assets at ending			47,943,601				29,368,622		50,419,407				29,368,622		68,860,603			31,414,955	31
32				94,558,631				60,360,224		97,034,439				60,360,224		116,804,204			60,783,557	32
33	Average net fixed assets			47,279,317				30,180,112		48,517,220				30,180,112		58,402,102			30,391,778	33
34	Manufacture Plant																			34
35	Net assets at beginning			2,637,345				969,390		2,756,438				969,390		2,659,601			941,494	35
36	Net assets at ending			2,551,087				941,494		2,639,601				941,494		2,387,906			913,598	36
37				5,178,432				1,910,885		5,416,039				1,910,885		5,247,506			1,855,093	37
38	Average net fixed assets			2,589,216				955,442		2,708,019				955,442		2,623,753			927,546	38
39																				39
40	Net assets at beginning			43,987,688				30,022,212		43,858,595				30,022,212		45,284,001			28,427,127	40
41	Net assets at ending			45,192,514				28,427,127		47,759,806				28,427,127		66,272,697			30,501,377	41
42				89,380,202				58,449,340		91,618,401				58,449,340		111,556,698			58,928,464	42
43	Average net fixed assets related to gas activity			44,690,101				29,224,670		45,809,200				29,224,670		55,778,349			29,464,232	43
44																				44

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 2020-21	Petition ERR FY 2021-22	Variance Inc./ (Dec.) ERR FY 2021-22 over DERR FY 2020-21		S.No.
1	Gross Sales	96.267	162.640	66.372	68.9	1
2	GST	13.988	23.631	9.644	68.9	2
3	Sales net of GST	82.280	139.008	56.729	68.9	3
4	Subsidy	1,079.811	950.056	(129.755)	(12.0)	4
5	Net Sales Revenue & Subsidy	1,162.091	1,089.065	(73.027)	(6.3)	5
6	Cost of Gas	684.851	729.958	45.108	6.6	6
7	Gross Profit	477.241	359.107	(118.134)	(24.8)	7
8	Operating Cost	145.521	145.010	(0.511)	(0.4)	8
9	Depreciation	105.645	90.620	(15.025)	(14.2)	9
10	Meter Rent	(2.856)	(3.192)	(0.336)	11.8	10
11	Late Payment Surcharge	(4.099)	(8.757)	(4.658)	113.6	11
12	Amortisation of deferred credit / other income	(31.689)	(31.773)	(0.084)	0.3	12
13		212.522	191.908	(20.614)	(9.7)	13
16	Profit Before Tax	264.719	167.199	(97.520)	(36.8)	16

Table # B-13.2

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

Rs Million

S.No.	DESCRIPTION	Determination ERR FY 2020-21	Petition ERR FY 2021-22	Variance Inc./ (Dec.) ERR FY 2021-22 over DERR FY 2020-21		S.No.
1	Gross Sales	96.267	162.640	66.372	68.9	1
2	GST	13.988	23.631	9.644	68.9	2
3	Sales net of GST	82.280	139.008	56.729	68.9	3
4	Cost of Gas	684.851	729.958	45.108	6.6	4
5	Gross Profit	(602.571)	(590.950)	11.621	(1.9)	5
6	Operating Cost	145.521	145.010	(0.511)	(0.4)	6
7	Depreciation	105.645	90.620	(15.025)	(14.2)	7
8	Meter Rent	(2.856)	(3.192)	(0.336)	11.8	8
9	Late Payment Surcharge	(4.099)	(8.757)	(4.658)	113.6	9
10	Amortisation of deferred credit / other income	(31.689)	(31.773)	(0.084)	0.3	10
11	Total Operating Cost	212.522	191.908	(20.614)	(9.7)	11
12	Disallowed Subsidy - Surab			-	-	12
13	Shortfall in Revenue	(815.093)	(782.858)	32.235	(4.0)	13
14						14
15	<u>Revenue Requirement</u>					15
16	Annual Natural Gas Sales Volume-	359,812	321,321	(2,856)	(0.8)	16
17						17
18	Shortfall-LPG Normal Operati	815.093	782.858	(124.019)	(15.2)	18
19	Return on Assets	264.719	167.199	13.493	5.1	19
20	WPPF	-	-	-	-	20
21	Total Shortfall	1,079.811	950.056	(110.526)	(10.2)	21
22	Price Increase per MMBTU	3.00	2.96	(0.28)	(9.4)	22

Schedule of LPG Air Mix Fixed Assets at Cost / WDV

Rs Million

	Determination ERR FY 2020-21			Petition ERR FY 2021-22		
	Opening Balance as on (01-07-2020)	Addition	Closing Balance as on (30-06-2021)	Opening Balance as on (01-07-2020)	Addition	Closing Balance as on (30-06-2021)
GAWADAR						
COST	169.175	2.770	171.945	171.945	1.230	173.175
DEP	90.756	7.822	98.578	98.578	7.278	105.856
WDV	78.419		73.367	73.367		67.319
Deferred credit	-	-	-	1.404		1.551
Net Average Fixed Assets		75.893		71.962	68.865	65.768
Net Return on Assets		14.905		12.003		
SURAB						
COST	268.426	4.290	272.716	272.716	0.550	273.266
DEP	126.867	15.017	141.884	141.884	10.293	152.177
WDV	141.559		130.832	130.832		121.089
Deferred credit	-	-	-	99.185		88.698
Net Average Fixed Assets		136.196		31.647	32.019	32.391
Net Return on Assets		26.749		5.581		
NOSHI						
COST	520.856	2.690	523.546	523.546	2.650	526.196
DEP	187.577	36.868	224.445	224.445	33.118	257.563
WDV	333.279		299.101	299.101		268.633
Deferred credit	-	-	-	110.953		102.176
Net Average Fixed Assets		316.190		188.147	177.302	166.457
Net Return on Assets		62.100		30.904		
KOT GHULAM						
COST	300.971	4.490	305.461	305.461	3.150	308.611
DEP	154.951	15.215	170.166	170.166	12.208	182.374
WDV	146.020		135.295	135.295		126.237
Deferred credit	-	-	-	107.852		95.428
Net Average Fixed Assets		140.658		27.443	29.126	30.810
Net Return on Assets		27.625		5.077		
AWARAN & BELA						
COST	807.543	2.300	809.843	809.843	2.200	812.043
DEP	114.413	30.723	145.136	145.136	27.724	172.860
WDV	693.130		664.707	664.707		639.183
Deferred credit	-	-	-	-		-
Net Average Fixed Assets		678.919		664.707	651.945	639.183
Net Return on Assets		133.340		113.634		
OVERALL						
COST	2,066.971	16.540	2,083.511	2,083.511	9.780	2,093.291
DEP	674.564	105.645	780.209	780.209	90.620	870.829
WDV	1,392.407		1,303.302	1,303.302		1,222.462
Deferred credit	-	-	-	319.395		287.853
Net Average Fixed Assets		1,347.854		983.907	959.258	934.609
Net Return on Assets		264.719		167.199		
Shortfall-LPG Normal Operations		815.093		782.858		
Total Shortfall / Subsidy		1,079.811		950.056		
Shortfall-LPG Normal Operations						
GAWADAR		99.605			104.389	
SURAB		176.117			152.106	
NOSHI		182.526			183.273	
KOT GHULAM		146.396			144.016	
AWARAN & BELA		210.449			199.075	
Shortfall-LPG Normal Operations		815.093			782.858	

6 /

SUI SOUTHERN GAS COMPANY LIMITED
PETITION FOR
ESTIMATED REVENUE REQUIREMENT
FY 2021-22
SECTION - C

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

DESCRIPTION	Table #
Tariff calculation sheet	C-1
Profit & loss account	C-2
Category-wise sales, prescribed price and GDS - existing	C-5
Statement of gas sales category-wise monthly and biannually	C-6
Basis and Assumption for weighted average cost of gas	C-7
Weighted average cost of gas of both companies	C-8
Statement of gas purchases field-wise monthly and biannually - SSGCL	C-8.1
Comparative Statement of UFG in Transmission & Distribution Systems	C-9

Table # C-1

SUI SOUTHERN GAS COMPANY LIMITED
TARIFF CALCULATION SHEET
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR THE FINANCIAL YEAR 2021-22

Particulars		Related to Natural Gas Customers	Related to LNG Customers
1	Gas Sales		
1A	MMCF	327,879	73,049
1B	BBTU	321,321	76,793
1C	Average Calorific Value per MMCF	980	1,051
1D	Energy delivered in MMBTU Rs Million		385,297
2	Net Operating Revenues		
	Sales at current Prescribed Price	218,529.469	105,906.414
	RLNG Transportation Income	-	9,428.828
	Income from Sale of LPG, NGL & Condensate	(4.617)	-
	Meter rentals	1,671.711	21.209
	Amortization of deferred credit	595.697	-
	Late payment Surcharge	1,025.657	-
	Meter manufacturing plant profit/ (loss)	29.609	-
	Other income	1,744.375	-
2A	Total Income	223,591.900	115,356.451
	Less: Operating Expenses		
	Cost of gas	224,151.975	112,450.838
	Adjustment in cost of gas for UFG above allowable limit	-	-
	UFG adjustments on RLNG volume handled basis (ring fence)	(6,449.980)	6,449.980
	Transmission and distribution cost	23,171.515	217.583
	Gas Internally Consumed	677.463	2,051.595
	Depreciation	7,703.858	1,467.301
	Other charges including WPPF	1,350.000	556.733
2B	Total Expenses	250,604.831	123,194.031
2C	Return available (2A - 2B)	(27,012.931)	(7,837.580)
3	Required Return on Net Fixed Assets		
	Net Operating Fixed Assets at Beginning	40,025.741	28,427.127
	Net Operating Fixed Assets at End	60,884.172	30,501.337
3A		100,909.913	58,928.464
3B	Average Net Operating Fixed Assets (3A / 2)	50,454.956	29,464.232
3C	Required Return on Net Assets - In Percentage	17.43%	17.43%
3D	Required Return (3B x 3C)	8,794.299	5,135.616
4	Shortfall / (Surplus) in Gas Operation [3D-2C]	35,807.229	12,973.195
6	Subsidy for LPG Air Mix Projects over & above Gas Operation	950.056	-
7	Total Shortfall in Revenue Requirement	36,757.285	12,973.195
	Rupees per MMBTU (w.e.f. 1 July 2021)	114.39	33.67

SUI SOUTHERN GAS COMPANY LIMITED
PROFIT AND LOSS ACCOUNT

Description	Determination ERR FY 2020-21 dt:-14-07-2020	Review Petition ERR FY 2020-21		Petition ERR FY 2021-22	
	Related to Natural Gas Customers	Related to Natural Gas Customers	Related to LNG Customers	Related to Natural Gas Customers	Related to LNG Customers
Sales					
MMCF	373,249	369,336	28,698	327,879	73,049
BBTU	359,812	357,722	29,484	321,321	76,793
<i>Rupees Million</i>					
Return required on net assets					
Net assets at the beginning	38,870	38,741	30,022	40,026	28,427
Net assets at the end	40,134	42,489	28,427	60,884	30,501
Average net operating fixed assets	39,502	40,615	29,225	50,455	29,464
Required return	6,893	7,079	5,094	8,794	5,136
Gas sales net of sales tax	276,768	271,101	33,223	233,359	105,906
Less: Gas Development Surcharge after adjustments	52,063	57,285	-	15,780	-
At current tariff	224,705	213,816	33,223	217,579	105,906
Tariff Adjustment Required	(6,586)	27,670	5,241	36,757	12,973
Net gas sales	218,119	241,486	38,464	254,337	118,880
Other Revenue					
RLNG Transportation Income	-	-	9,321	-	9,429
Income from Sale of LPG, NGL & Condensate	3,013	3,013	-	(9)	-
Meter rentals	855	1,427	-	1,672	21
Recognition of income against deferred credit	530	530	-	596	-
Late payment surcharge	1,248	1,248	-	1,026	-
Meter manufacturing plant profit	57	57	-	59	-
Air Mix LPG projects profit	265	265	-	167	-
Other income	2,766	2,766	1,074	2,098	1,239
Other Revenue	8,734	9,307	10,396	5,608	10,689
Revenues	226,853	250,793	48,860	259,945	129,568
Expenses					
Cost of gas	217,332	224,566	29,041	224,152	112,451
Transmission and distribution costs	15,594	22,358	1,973	23,849	2,269
Depreciation	6,847	7,011	1,595	7,704	1,495
Other charges excluding (W.P.P.F.)	1,572	1,572	(0)	1,459	(0)
Workers Profit Participation Fund (W.P.P.F.)	-	-	659	-	557
	241,345	255,506	33,268	257,164	116,772
Operating Profit / (Loss)	(14,491)	(4,714)	15,591	2,781	12,796
Less : Borrowing cost	8,373	8,373	3,064	3,921	2,219
Profit / (loss) before tax	(22,864)	(13,087)	12,527	(1,140)	10,578

SUI SOUTHERN GAS COMPANY LIMITED

ERR PETITION

FOR THE FINANCIAL YEAR 2021-22

Table # C-5

Category-wise Sales Revenue
and Gas Development Surcharge

Category-wise Sales Revenue and Gas Development Surcharge		Estimated	At Existing Selling Price Notification		At Prescribed Price Notification		
CATEGORY	ENERGY BBTU	Average Rate Rs per MMBTU	Commodity / Fixed Charge Rs in Million	Average Rate Rs per MMBTU	Commodity / Fixed Charge Rs in Million	Gas Development Surcharge	
Average Minimum Consumers							
DOMESTIC							
Nil / Min. Charges	7,381	172.58	2,545	172.58	2,545	-	
Bulk Consumption	2,952	780.00	2,303	780.00	2,303	-	
Standalone Consumption	-	-	-	-	-	-	
Upto 50 m3	24,833	121.00	3,005	121.00	3,005	-	
Upto 100 m3	40,252	300.00	12,076	300.00	12,076	-	
Upto 200 m3	19,999	553.00	11,060	553.00	11,060	-	
Upto 300 m3	3,759	738.00	2,774	738.00	2,774	-	
Upto 400 m3	2,855	1,107.00	3,161	1,069.75	3,055	106	
Above 400 m3	7,031	1,460.00	10,265	1,410.87	9,920	345	
Total Domestic	109,063	432.67	47,189	428.53	46,737	452	
COMMERCIAL							
Special Commercial (Roti Tandoor)							
Nil / Min. Charges	-	148.50	-	148.50	-	-	
Upto 50 m3	-	110.00	-	110.00	-	-	
Upto 100 m3	-	110.00	-	110.00	-	-	
Upto 200 m3	-	220.00	-	220.00	-	-	
Upto 300 m3	-	220.00	-	220.00	-	-	
Upto 400 m3	-	700.00	-	700.00	-	-	
Above 400 m3	630	700.00	441	700.00	441	-	
Special Commercial (Roti Tandoor)	630	700.00	441	700.00	441	-	
Other Commercial	8,862	1,283.00	11,370	1,239.83	10,988	383	
Total Commercial	9,493	1,244.30	11,812	1,204.00	11,429	383	
Fertilizer - Feed	18,662	302.00	5,636	300.00	5,599	37	
Fertilizer - Fuel	396	1,023.00	405	986.65	390	14	
Power	17,921	857.00	15,359	796.27	14,270	1,088	
Abul Kalam Coastal Power (Pvt.) Ltd.	3,577	857.00	3,065	796.27	2,848	217	
NOORABAD POWER PLANT	5,979	857.00	5,124	796.27	4,761	363	
Cement	131	1,277.00	167	1,234.03	161	6	
Gen. Industry	32,322	1,054.00	34,068	986.65	31,891	2,177	
TEXTILE PROCESS (Zero Rated)	48,111	819.00	39,403	759.55	36,542	2,860	
CAPTIVE POWER - TEXTILE (Z)	48,933	852.00	41,691	759.55	37,167	4,524	
Captive	25,325	1,087.00	27,528	986.65	24,987	2,541	
CNG Region-I (Balochistan)	548	1,371.00	752	1,239.83	680	72	
CNG Region-II (Sindh)	860	1,350.00	1,161	1,239.83	1,066	95	
Total Industrial	202,766	859.90	174,359	790.88	160,364	13,995	
Total	321,321	726.25	233,359	680.10	218,529	14,829	

Note:-

- ✦ Average consumer price notification dated 23-10-2020 issued by
- ✦ Average prescribed price notification dated 23-11-2020 issued by Authority.

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES
ERR Petition For FY 2021-22

Table # C-6

	July/20					August/20					September/20				
	NMCFD	MMCFP	MMMBTU	Sales Rs Million	QDS Rs Million	NMCFD	MMCFP	MMMBTU	Sales Rs Million	QDS Rs Million	NMCFD	MMCFP	MMMBTU	Sales Rs Million	QDS Rs Million
KARACHI (UNIT - A)															
POWER - KESC	27.4	849	832	712,875	50,517	27.3	859	842	721,536	51,131	27.9	837	820	702,821	49,804
POWER - BINGASIM	27.0	837	820	702,754	49,800	25.6	794	778	666,845	47,255	25.6	768	753	645,007	45,707
POWER - RLNG	123.0	3,813	4,023	5,516,919	-	123.0	3,813	4,023	5,516,919	-	123.0	3,690	3,893	5,338,954	-
CEMENT	0.4	13	13	16,060	0,540	0.7	21	21	26,762	0,901	0.3	10	10	12,716	0,429
FERTILIZER - Fardisook	57.3	1,777	1,741	525,825	3,482	55.1	1,709	1,675	505,941	3,351	57.0	1,709	1,674	505,648	3,349
FERTILIZER - Power	1.1	34	33	33,817	1,202	1.7	53	51	52,682	1,872	1.4	42	41	41,955	1,491
PAK STEEL	2.1	64	63	66,428	4,245	2.1	65	64	66,959	4,279	2.1	62	61	64,390	4,114
CNG STATIONS	2.6	82	80	108,230	8,832	2.5	77	76	102,442	8,360	2.4	73	72	96,991	7,915
CNG STATIONS (RLNG)	32.7	1,014	1,069	1,466,461	-	32.2	997	1,052	1,442,099	-	31.7	952	1,004	1,376,793	-
CAPTIVE POWER	52.6	1,650	1,597	1,736,176	160,281	47.1	1,462	1,432	1,556,972	143,737	50.4	1,511	1,481	1,609,430	148,580
CAPTIVE POWER (RLNG)	16.8	519	548	751,480	-	13.0	402	424	581,315	-	25.1	752	793	1,087,373	-
CAPTIVE POWER (TEXTILE)	115.0	3,564	3,493	2,976,182	322,944	109.9	3,408	3,340	2,845,842	308,801	114.4	3,431	3,362	2,864,652	310,842
ZERO-RATED INDUSTRIES	138.1	4,282	4,196	3,436,875	249,478	134.9	4,182	4,099	3,356,768	243,663	137.6	4,128	4,045	3,312,999	240,486
GENERAL INDUSTRIES (RLNG)	3.5	108	114	156,874	-	1.8	55	58	79,493	-	2.1	64	68	92,663	-
GENERAL INDUSTRIES	82.0	2,542	2,491	2,625,678	167,779	73.8	2,287	2,241	2,361,799	150,918	80.8	2,425	2,377	2,303,322	160,089
COMMERCIAL	20.8	645	633	811,505	27,305	19.9	616	604	774,938	26,076	20.6	618	606	777,026	26,145
COMMERCIAL (RLNG)	2.5	78	83	113,240	-	2.4	75	79	109,014	-	2.5	74	78	106,367	-
COMMERCIAL (SPRT)	0.6	18	17	12,094	-	0.5	16	16	11,221	-	0.5	16	16	11,301	-
DOMESTIC (RLNG)	0.0	0	0	0,369	-	0.0	1	1	0,778	-	0.0	1	1	1,130	-
DOMESTIC	160.1	4,962	4,863	2,016,304	19,210	159.1	4,932	4,833	2,007,601	19,061	156.5	4,695	4,601	1,873,436	17,890
SUB TOTAL 'A'	865.5	26,831	26,710	23,786,166	1,065,615	833.0	25,824	25,709	22,787,948	1,009,402	861.9	25,857	25,754	23,036,956	1,016,840
SINDH (UNIT - B)															
POWER - WAPDA	521	510	510	437,175	30,980	522	512	512	438,625	31,093	522	566	555	475,536	33,698
NOORABAD POWER PLANT	1.4	44	43	57,684	4,707	1.6	49	48	65,226	5,323	1.4	43	42	56,759	4,632
CEMENT	20.8	621	655	898,134	-	21.8	675	712	976,512	-	20.2	607	641	878,901	-
CNG STATIONS (RLNG)	27.1	839	822	893,861	82,520	23.0	713	699	759,747	76,139	25.4	761	746	811,136	74,883
CAPTIVE POWER	0.1	3	3	4,156	-	0.2	6	6	8,313	-	0.3	8	9	12,067	-
CAPTIVE POWER (RLNG)	36.4	1,129	1,107	942,739	102,296	34.8	1,078	1,057	900,365	97,698	36.2	1,087	1,065	907,527	98,475
CAPTIVE POWER (TEXTILE)	2.1	65	64	52,428	3,806	2.0	63	62	50,941	3,698	2.1	62	61	50,062	3,634
ZERO-RATED INDUSTRIES	2.7	83	81	119,391	-	1.5	46	49	66,521	-	2.0	61	65	84,475	-
GENERAL INDUSTRIES (RLNG)	10.5	327	320	337,255	21,550	8.5	264	259	273,113	17,452	10.3	308	302	318,281	20,338
GENERAL INDUSTRIES	4.2	130	128	164,007	5,518	4.1	127	124	159,598	5,370	4.0	120	118	151,425	5,095
COMMERCIAL	0.7	23	24	33,208	-	0.8	24	25	34,555	-	0.7	22	23	31,489	-
COMMERCIAL (RLNG)	0.1	2	2	1,657	-	0.1	2	2	1,273	-	0.1	3	3	2,003	-
COMMERCIAL (SPRT)	0.0	0	0	0,545	-	0.0	1	1	1,090	-	0.0	1	1	1,583	-
DOMESTIC (RLNG)	63.6	1,973	1,933	797,867	2,476	64.4	1,997	1,957	809,367	2,595	65.7	1,970	1,931	792,042	2,464
DOMESTIC	185.8	5,761	5,700	4,742,001	258,917	179.7	5,569	5,514	4,547,146	238,421	187.5	5,624	5,564	4,579,923	248,308
SUB TOTAL 'B'															
QUETTA (UNIT - C)															
POWER - WAPDA	310	310	304	260,357	18,450	310	310	304	260,357	18,450	310	300	294	251,958	17,855
HABIBULLAH COASTAL POWER (NG)	10.0	310	304	416,644	-	10.0	310	304	416,644	-	10.0	300	294	403,204	-
HABIBULLAH COASTAL POWER (RLNG)	1.8	55	54	74,294	7,108	1.9	58	57	78,469	7,307	1.8	55	54	74,143	7,094
CNG STATIONS	0.1	2	2	2,073	0,191	0.1	2	2	1,957	0,181	0.1	2	2	1,704	0,157
CAPTIVE POWER	1.6	49	48	51,104	3,266	1.0	30	29	30,675	1,960	1.4	43	43	44,920	2,870
GENERAL INDUSTRIES	1.9	58	57	73,389	2,469	1.7	51	50	64,564	2,172	1.8	53	52	66,819	2,248
COMMERCIAL	1.2	38	37	25,946	-	1.2	36	35	24,638	-	1.2	36	35	24,813	-
COMMERCIAL (SPRT)	30.5	946	927	437,718	4,077	30.9	938	939	445,042	4,137	33.7	1,011	990	470,632	4,397
DOMESTIC	57.1	1,769	1,734	1,341,525	35,562	56.6	1,755	1,720	1,332,146	34,407	60.0	1,800	1,764	1,338,192	34,621
SUB TOTAL 'C'	1,000.0	3,000.0	3,000.0	10,000,000.0	500,000.0	1,000.0	3,000.0	2,999.9	9,999,999.9	500,000.0	1,000.0	2,999.9	2,999.9	9,999,999.9	500,000.0
GRAND TOTAL	212.0	6,572	6,911	9,477,462	206,600	206.6	6,404	6,733	9,233,257	206,600	217.7	6,531	6,868	9,418,999	206,600
TOTAL RLNG	896.4	27,789	27,233	20,392,230	1,360,093	862.8	26,745	26,210	19,424,184	1,282,029	893.6	26,749	26,214	19,526,112	1,299,769
TOTAL NG															

SUI SOUTHERN GAS COMPANY LIM
STATEMENT OF GAS SALES
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Table # C-6

	October/20						November/20						December/20					
	MOUCFD	MOACF	MOABDTU	Sales Rs Million	US\$ Rs Million	MOUCFD	MOACF	MOABDTU	Sales Rs Million	US\$ Rs Million	MOUCFD	MOACF	MOABDTU	Sales Rs Million	US\$ Rs Million	MOUCFD	MOACF	MOABDTU
KARACHI UNIT - A																		
POWER - RESC	28.1	870	852	730,404	51,739	26.4	793	777	665,945	47,191	23.0	714	700	599,784	42,503			
POWER - BINCASIM	24.1	747	732	627,339	44,455	21.4	641	628	537,932	38,120	18.3	572	561	480,380	34,041			
POWER - RLNG	123.0	3,813	4,023	5,516,919	-	123.0	3,893	3,893	5,338,934	-	123.0	3,813	4,023	5,516,919	-			
CEMENT	0.4	11	11	14,129	0,415	0.4	12	11	14,567	0,490	0.2	5	5	6,777	0,228			
FERTILIZER - Feedstock	57.9	1,795	1,759	531,259	3,318	57.1	1,712	1,678	506,743	3,336	51.5	1,595	1,563	472,044	3,126			
FERTILIZER - Power	0.7	23	22	22,623	0,804	1.1	32	32	32,384	1,151	1.9	58	57	58,212	2,065			
PAK STEEL	2.1	65	63	66,862	4,772	2.1	64	63	66,411	4,244	2.2	68	67	70,463	4,503			
CNG STATIONS	2.4	74	73	98,437	8,033	2.5	76	75	101,159	8,255	2.4	70	69	62,518	5,102			
CNG STATIONS (RLNG)	32.1	995	1,050	1,439,807	-	33.7	1,011	1,067	1,463,010	-	23.9	740	780	1,070,222	-			
CAPTIVE POWER	55.6	1,724	1,690	1,837,022	169,591	55.3	1,659	1,626	1,767,609	163,183	48.2	1,493	1,463	1,590,555	146,837			
CAPTIVE POWER (RLNG)	20.2	626	660	905,431	-	17.7	531	560	767,904	-	11.8	367	387	530,739	-			
CAPTIVE POWER (TEXTILE)	115.8	3,590	3,518	2,997,188	325,223	112.0	3,360	3,293	2,805,598	304,434	104.8	3,248	3,183	2,711,594	294,733			
ZERO-RATED INDUSTRIES	141.6	4,390	4,302	3,523,506	255,766	139.7	4,150	4,106	3,362,915	244,109	137.1	4,251	4,166	3,411,611	247,644			
GENERAL INDUSTRIES (RLNG)	2.6	80	84	115,042	-	1.6	48	51	69,322	-	2.5	76	80	109,934	-			
GENERAL INDUSTRIES	90.4	2,803	2,747	2,895,081	184,594	86.8	2,604	2,552	2,690,071	171,894	83.9	2,601	2,549	2,686,521	171,667			
COMMERCIAL	20.5	635	623	798,817	26,878	21.5	645	632	811,399	27,302	21.8	675	661	848,268	28,542			
COMMERCIAL (RLNG)	2.8	86	91	124,870	-	2.8	85	90	122,812	-	3.2	98	104	142,168	-			
COMMERCIAL (SPRT)	0.6	19	19	13,246	-	0.6	18	17	12,099	-	0.7	21	20	14,152	-			
DOMESTIC (RLNG)	0.0	3	1	1,557	-	0.0	1	1	1,883	-	0.1	2	2	2,335	-			
DOMESTIC	149.2	4,624	4,531	1,837,103	17,539	154.0	4,620	4,528	1,829,217	17,521	155.1	4,649	4,528	1,829,217	17,521			
SUB TOTAL 'A'	870.0	26,971	26,852	24,096,641	1,093,309	859.8	25,793	25,680	22,967,934	1,031,248	854.6	26,491	26,344	22,923,854	1,005,076			
SINDHI UNIT - B																		
POWER - WAPDA																		
NOORABAD POWER PLANT																		
CEMENT	18.5	573	561	481,083	34,091	18.1	544	534	457,268	32,404	15.1	468	458	392,811	27,836			
CNG STATIONS	0.1	2	2	1,986	0,067	0.1	2	2	2,649	0,089	0.0	1	1	1,354	0,046			
CNG STATIONS (RLNG)	1.5	47	46	62,344	5,088	1.7	50	49	66,296	5,410	1.1	35	34	46,005	3,754			
CAPTIVE POWER	21.1	654	690	946,567	-	22.5	676	713	977,984	-	17.3	537	566	776,812	-			
CAPTIVE POWER (RLNG)	29.1	901	883	960,153	88,640	20.8	624	611	664,474	61,343	20.1	624	611	664,199	61,318			
CAPTIVE POWER (TEXTILE)	0.4	11	12	16,626	-	0.5	14	15	20,112	-	0.6	17	18	24,939	-			
ZERO-RATED INDUSTRIES	36.7	1,138	1,115	950,190	103,105	38.9	1,166	1,143	973,741	105,660	34.6	1,072	1,051	895,422	97,162			
GENERAL INDUSTRIES (RLNG)	2.1	65	64	52,483	3,810	2.2	63	63	51,838	3,763	2.1	65	63	51,840	3,763			
GENERAL INDUSTRIES	4.5	139	146	200,900	-	1.8	55	58	79,242	-	1.7	52	55	75,463	-			
COMMERCIAL	10.7	331	325	342,197	21,866	11.2	335	329	346,339	22,131	11.8	366	358	377,748	24,138			
COMMERCIAL (RLNG)	4.0	125	123	157,270	5,309	4.1	124	122	156,274	5,258	4.4	135	132	160,872	5,716			
COMMERCIAL (SPRT)	0.8	25	26	35,485	-	0.8	23	25	33,823	-	0.9	27	28	38,781	-			
DOMESTIC (RLNG)	0.1	3	3	1,942	-	0.1	4	3	2,414	-	0.1	4	3	2,414	-			
DOMESTIC	0.0	2	2	2,181	-	0.1	2	2	2,638	-	0.1	2	2	3,271	-			
SUB TOTAL 'B'	60.7	1,882	1,845	749,624	7,028	69.0	2,070	2,029	838,667	7,957	69.1	2,886	2,829	1,244,875	11,991			
QUETTA (ONGDP)																		
POWER - WAPDA																		
HABIBULLAH COASTAL POWER (NG)																		
HABIBULLAH COASTAL POWER (RLNG)																		
CNG STATIONS	10.0	310	304	260,357	18,450	10.0	300	294	251,958	17,855	10.0	310	304	260,357	18,450			
CAPTIVE POWER	1.9	58	57	77,589	7,423	1.9	56	55	75,874	7,259	2.0	61	59	81,353	7,783			
GENERAL INDUSTRIES	0.1	2	2	1,760	0,162	0.1	2	2	1,733	0,160	0.1	3	3	2,845	0,263			
COMMERCIAL	1.8	56	55	52,174	3,526	1.4	42	41	42,916	2,742	0.9	28	28	29,392	1,818			
COMMERCIAL (SPRT)	1.3	39	38	26,614	2,388	1.2	35	35	24,319	2,647	2.4	73	72	92,154	3,101			
DOMESTIC	31.4	973	953	449,252	42,101	35.9	1,676	1,643	800,689	7,687	66.9	2,074	2,032	987,484	9,651			
SUB TOTAL 'C'	58.1	1,801	1,765	1,358,346	36,158	58.2	2,474	2,424	1,679,358	38,350	93.4	2,897	2,839	1,966,372	41,126			
GRAND TOTAL	1,118.4	34,670	34,459	30,416,519	1,398,470	1,134.0	34,021	33,801	29,320,992	1,313,614	1,118.4	34,670	34,459	30,416,519	1,398,470			
TOTAL RLNG	217.5	6,741	7,089	9,722,028	-	214.5	6,436	6,767	9,280,889	-	194.9	6,041	6,350	8,708,148	-			
TOTAL NG	900.9	27,929	27,370	20,694,491	1,398,470	919.5	27,586	27,034	20,040,103	1,313,614	956.0	29,637	29,045	20,887,805	1,281,955			

SUI SOUTHERN GAS COMPANY LIM
STATEMENT OF GAS SALES
ERR Petition For FY 2021-22

Table # C-6

	January/21					February/21					March/21				
	MOGFD	MOGCF	MOGDTU	Sales Rs Million	QUS Rs Million	MOGFD	MOGCF	MOGDTU	Sales Rs Million	QUS Rs Million	MOGFD	MOGCF	MOGDTU	Sales Rs Million	QUS Rs Million
MARATHI UNIT - A															
POWER - KESC	20.7	642	629	539,296	38,216	22.4	626	614	526,117	37,282	25.8	801	785	672,654	47,667
POWER - BINSIM	16.9	523	512	438,888	31,101	17.1	480	470	402,832	28,546	22.9	709	695	595,849	42,224
POWER - RLNG	123.0	3,813	4,023	5,582,597	-	123.0	3,444	3,633	5,042,345	-	123.0	3,813	4,023	5,582,597	-
CEMENT	0.2	6	5	6,934	0,233	0.4	11	10	13,302	0,448	0.6	19	18	23,392	0,787
FERTILIZER - Feedstock	7.3	226	221	66,789	0,442	49.6	1,590	1,362	411,391	2,784	51.0	1,382	1,550	468,122	3,100
FERTILIZER - Power	2.9	90	88	90,358	3,211	1.6	45	44	44,948	1,597	0.4	12	12	12,086	0,429
PAK STEEL	2.2	69	68	71,327	4,558	2.3	64	63	65,955	4,214	2.2	68	67	70,736	4,520
CNG STATIONS	0.4	14	14	18,324	1,495	0.7	20	20	26,898	2,195	0.9	26	26	34,963	2,853
CNG STATIONS (RLNG)	12.6	390	412	571,137	-	15.6	436	460	638,340	-	17.0	526	555	769,586	-
CAPTIVE POWER	37.4	1,161	1,138	1,236,637	114,168	45.4	1,272	1,246	1,334,834	125,076	42.0	1,303	1,271	1,388,266	128,157
CAPTIVE POWER (RLNG)	22.9	710	749	1,039,229	-	19.1	534	563	781,903	-	21.1	653	689	936,360	-
CAPTIVE POWER (TEXTILE)	101.5	3,147	3,084	2,627,407	285,098	108.7	3,044	2,983	2,541,545	275,781	96.3	2,987	2,927	2,493,684	270,588
ZERO-RATED INDUSTRIES	136.4	4,229	4,144	3,994,276	246,386	139.8	3,916	3,837	3,142,833	228,134	128.3	3,977	3,897	3,191,986	231,702
GENERAL INDUSTRIES (RLNG)	3.5	109	115	159,216	-	3.2	89	94	130,542	-	1.5	47	50	69,351	-
GENERAL INDUSTRIES	80.0	2,479	2,429	2,560,158	163,593	86.2	2,414	2,366	2,493,608	159,340	74.9	2,321	2,274	2,397,142	153,176
COMMERCIAL	21.2	656	643	824,775	27,752	21.6	606	593	761,411	25,620	16.6	515	505	647,723	21,794
COMMERCIAL (RLNG)	3.0	92	97	135,224	-	3.3	93	98	136,314	-	2.6	80	84	117,062	-
COMMERCIAL (SPRT)	0.6	18	18	12,402	-	0.6	17	17	11,706	-	0.5	15	15	10,627	-
DOMESTIC (RLNG)	0.1	2	2	2,757	-	0.1	2	2	2,846	-	0.1	2	3	3,544	-
DOMESTIC	271.5	8,415	8,247	3,731,905	36,278	231.6	6,485	6,356	2,753,334	26,739	166.3	5,155	5,052	2,081,706	20,163
SUB TOTAL 'A'	864.2	26,789	26,637	23,109,637	952,328	892.4	24,988	24,833	21,383,001	917,698	793.9	24,612	24,504	21,587,374	927,160
SINDHI UNIT - B															
POWER - WAPDA															
NOORABAD POWER PLANT															
CEMENT	12.2	378	371	317,874	22,526	14.3	400	392	335,806	23,796	17.0	527	517	442,980	31,391
CNG STATIONS	0.5	15	14	19,481	1,590	0.7	20	20	26,747	2,183	0.8	25	25	33,369	2,723
CNG STATIONS (RLNG)	11.2	346	365	507,211	-	13.5	379	399	554,334	-	14.4	446	471	653,214	-
CAPTIVE POWER	21.2	658	645	701,172	64,731	27.0	756	741	805,462	74,359	24.5	761	746	810,529	74,827
CAPTIVE POWER (RLNG)	0.6	20	21	29,442	-	0.7	21	22	30,391	-	0.8	26	27	37,854	-
CAPTIVE POWER (TEXTILE)	33.8	1,047	1,026	874,341	94,895	37.6	1,054	1,033	880,049	95,494	33.2	1,028	1,008	858,729	93,180
ZERO-RATED INDUSTRIES	2.1	66	65	53,191	3,161	2.2	61	59	48,573	3,526	1.9	60	59	47,975	3,482
GENERAL INDUSTRIES (RLNG)	7.2	223	235	326,445	-	6.0	167	176	244,201	-	3.9	122	129	178,888	-
GENERAL INDUSTRIES	9.6	297	291	306,844	19,607	10.1	282	276	291,183	18,606	10.5	325	319	336,058	21,474
COMMERCIAL	4.6	143	140	180,212	6,064	4.6	128	125	160,611	5,404	3.4	107	104	134,047	4,510
COMMERCIAL (RLNG)	0.9	29	30	41,577	-	1.1	30	32	43,982	-	0.6	20	21	28,683	-
COMMERCIAL (SPRT)	0.1	3	3	1,901	-	0.1	3	3	1,992	-	0.1	2	2	1,353	-
DOMESTIC (RLNG)	0.1	3	3	3,862	-	0.1	3	3	3,987	-	0.1	3	4	4,966	-
DOMESTIC	122.6	3,799	3,723	3,698,277	16,504	119.5	3,346	3,279	3,465,246	14,262	76.1	2,360	2,313	979,031	9,392
SUB TOTAL 'B'	226.7	7,028	6,934	5,062,429	229,778	237.5	6,649	6,581	4,893,780	217,671	187.5	5,814	5,744	4,547,876	240,980
QUETTA (ONGDP)															
POWER - WAPDA															
HABIBULLAH COASTAL POWER (NG)															
HABIBULLAH COASTAL POWER (RLNG)	19.0	310	304	260,357	18,450	10.0	280	274	235,161	16,664	10.0	310	304	260,357	18,450
CNG STATIONS	1.9	57	56	77,103	7,377	1.9	54	53	73,210	7,004	1.4	42	41	56,369	5,393
CAPTIVE POWER	0.1	3	3	3,233	0,298	0.1	3	3	3,274	0,256	0.1	2	2	1,805	0,167
GENERAL INDUSTRIES	1.2	36	36	37,647	2,406	1.1	32	31	32,776	2,094	0.8	25	24	25,659	1,640
COMMERCIAL	2.4	73	72	92,383	3,108	2.4	67	66	84,393	2,840	1.7	52	51	65,719	2,211
COMMERCIAL (SPRT)	1.2	38	37	26,193	-	1.3	37	36	25,339	-	1.2	37	36	25,182	-
DOMESTIC	75.1	2,328	2,281	1,125,522	10,909	72.7	2,035	1,995	976,653	9,462	54.2	1,679	1,645	796,585	7,700
SUB TOTAL 'C'	101.8	3,157	3,093	2,044,040	42,548	99.6	2,788	2,732	1,811,109	38,321	79.2	2,456	2,407	1,653,280	35,560
GRAND TOTAL	1,192.7	36,974	36,665	30,216,106	1,234,863	1,229.4	34,425	34,126	27,987,890	1,193,669	1,060.7	32,842	32,655	27,788,519	1,203,700
TOTAL RLNG	195.1	6,047	6,356	8,820,700	-	195.6	5,477	5,517	7,989,988	-	195.1	6,049	6,158	8,823,708	-
TOTAL NG	997.7	30,927	30,309	21,395,406	1,234,863	1,033.8	28,947	28,368	19,997,903	1,193,689	865.6	26,833	26,297	18,964,812	1,203,700

SUI SOUTHERN GAS COMPANY LIM
STATEMENT OF GAS SALES
ERR Petition For FY 2021-22

Table # C-6

	April 21					May 21					June 21				
	MMCFD	MMCF	MMBBTU	Sales Rs Million	QDS Rs Million	MMCFD	MMCF	MMBBTU	Sales Rs Million	QDS Rs Million	MMCFD	MMCF	MMBBTU	Sales Rs Million	QDS Rs Million
KARACHI UNIT - A															
POWER - KESC	29.0	869	832	730,051	51,734	34.9	1,082	1,060	908,538	64,382	27.8	834	817	790,448	49,636
POWER - BINQASIM	26.5	795	779	667,830	47,325	27.3	846	829	710,472	50,347	26.7	800	784	672,115	47,628
POWER - RLNG	123.0	3,690	3,893	5,402,513	-	123.0	3,813	4,023	5,582,597	-	123.0	3,690	3,893	5,402,513	-
CEMENT	0.3	8	8	9,889	0.333	0.1	2	2	2,474	0.083	0.1	3	3	4,288	0.144
FERTILIZER - Feedstock	61.4	1,841	1,804	544,778	3,608	63.5	1,970	1,950	582,928	3,860	58.0	1,739	1,704	514,584	3,408
FERTILIZER - Power	0.2	7	6	6,613	0.235	0.2	5	5	4,717	0.168	0.1	4	4	4,360	0.155
PAK STEEL	2.2	66	64	67,917	4,340	2.1	64	63	66,230	4,232	2.1	62	60	63,551	4,061
CNG STATIONS	0.1	3	3	3,569	0.291	0.3	11	11	14,340	1,170	0.5	16	15	20,723	1,691
CNG STATIONS (RLNG)	8.9	267	282	391,086	-	13.7	363	383	530,927	-	13.0	389	410	569,402	-
CAPTIVE POWER	32.1	963	944	1,026,090	94,727	42.2	1,309	1,283	1,394,857	128,771	53.6	1,607	1,575	1,712,150	158,063
CAPTIVE POWER (RLNG)	20.5	616	650	902,153	-	21.5	665	702	974,059	-	23.1	692	731	1,013,831	-
CAPTIVE POWER (TEXTILE)	70.3	2,109	2,067	1,761,191	191,106	85.9	2,663	2,610	2,223,439	241,264	102.0	3,061	3,000	2,555,883	277,337
ZERO-RATED INDUSTRIES	105.9	3,176	3,112	2,548,284	185,012	118.0	3,657	3,584	2,935,555	213,086	132.5	3,974	3,894	3,189,429	231,516
GENERAL INDUSTRIES (RLNG)	0.9	26	28	38,298	-	1.8	56	59	82,070	-	4.4	131	138	191,725	-
GENERAL INDUSTRIES	53.3	1,600	1,568	1,653,018	105,627	58.6	1,818	1,782	1,877,785	119,989	76.7	2,302	2,256	2,373,679	151,932
COMMERCIAL	8.2	245	240	308,064	10,366	13.5	419	410	526,622	17,220	20.2	606	594	761,769	25,632
COMMERCIAL (RLNG)	1.0	29	31	42,568	-	1.2	37	39	53,994	-	2.5	75	79	109,495	-
COMMERCIAL (SPRT)	0.2	7	7	4,633	-	0.3	10	10	6,856	-	0.7	20	20	13,830	-
DOMESTIC (RLNG)	0.1	3	3	3,811	-	0.1	3	3	4,332	-	0.1	3	3	4,575	-
DOMESTIC	163.5	4,905	4,807	1,971,661	18,927	154.9	4,801	4,705	1,938,737	18,413	202.9	6,087	5,965	2,600,712	24,771
SUB TOTAL 'A'	707.3	21,224	21,147	18,090,492	713,630	761.1	23,593	23,492	20,421,509	863,485	869.8	26,093	25,947	22,483,061	975,975
SINDH UNIT - B															
POWER - WAPDA															
NOORABAD POWER PLANT															
CEMENT	18.9	568	556	476,667	33,778	16.1	498	488	418,473	29,654	17.8	535	525	449,688	31,866
CNG STATIONS	0.3	10	10	13,140	1,072	0.3	9	9	12,393	1,011	0.0	1	1	1,762	0,039
CNG STATIONS (RLNG)	9.8	294	310	430,793	-	9.5	296	312	432,687	-	9.9	298	315	437,008	-
CAPTIVE POWER	21.7	652	639	694,759	64,139	19.7	611	598	650,387	60,043	27.6	827	810	880,809	81,315
CAPTIVE POWER (RLNG)	0.9	28	29	40,703	-	1.0	32	33	45,265	-	1.6	47	50	69,195	-
CAPTIVE POWER (TEXTILE)	20.3	610	598	509,227	55,256	28.1	871	853	727,024	78,889	34.6	1,039	1,018	867,465	94,128
ZERO-RATED INDUSTRIES	1.7	50	49	40,172	2,916	1.9	58	56	46,197	3,353	2.1	62	60	49,405	3,586
GENERAL INDUSTRIES (RLNG)	1.2	37	40	54,837	-	1.5	47	50	69,435	-	5.5	166	175	243,444	-
GENERAL INDUSTRIES	6.4	191	187	196,933	12,584	7.9	245	241	253,522	16,200	10.8	325	319	325,899	21,464
COMMERCIAL	1.9	56	55	70,099	2,359	3.9	121	118	151,510	5,098	4.5	134	131	168,606	5,673
COMMERCIAL (RLNG)	0.3	8	8	10,998	-	0.4	11	12	16,626	-	0.5	16	17	23,896	-
COMMERCIAL (SPRT)	0.0	1	1	6,639	-	0.0	1	1	0,757	-	0.1	2	2	1,525	-
DOMESTIC (RLNG)	0.1	4	4	5,339	-	0.1	4	4	6,069	-	0.1	4	4	6,405	-
DOMESTIC	65.7	1,971	1,931	790,434	7,466	68.6	2,128	2,085	878,859	8,244	87.2	2,615	2,563	1,127,467	10,652
SUB TOTAL 'B'	149.3	4,478	4,417	3,334,739	179,570	159.1	4,932	4,862	3,710,504	202,492	202.8	6,084	6,002	4,675,588	249,806
QUETTA LONGDP															
POWER - WAPDA															
HABIBULLAH COASTAL POWER (NG)															
HABIBULLAH COASTAL POWER (RLNG)															
CNG STATIONS	10.0	300	294	251,958	17,855	10.0	310	304	260,357	18,450	10.0	300	294	251,958	17,855
CAPTIVE POWER	0.8	23	22	30,313	2,900	0.6	19	18	24,984	2,390	0.7	21	21	28,198	2,698
GENERAL INDUSTRIES	0.8	23	23	24,209	1,547	0.8	24	24	25,222	1,612	0.7	21	21	21,688	1,386
COMMERCIAL	0.9	26	26	33,241	1,118	2.1	66	64	82,476	2,782	2.4	71	69	89,162	3,000
COMMERCIAL (SPRT)	0.9	28	28	19,550	-	0.7	21	20	14,185	-	1.2	35	34	23,911	-
DOMESTIC	28.0	841	824	375,774	3,559	33.7	1,044	1,023	488,528	4,563	38.2	997	977	466,657	4,328
SUB TOTAL 'C'	51.4	1,542	1,511	1,143,048	26,979	57.9	1,794	1,758	1,318,219	29,837	59.2	1,745	1,710	1,290,254	29,328
GRAND TOTAL	904.2	27,245	27,075	22,568,280	920,179	978.0	30,519	30,212	25,449,932	1,095,835	1,130.8	33,924	33,659	28,448,903	1,255,109
TOTAL RLNG	176.7	5,302	5,371	7,731,078	-	181.8	5,637	5,524	8,220,664	-	193.8	5,813	6,110	8,479,493	-
TOTAL NG	731.4	21,943	21,504	14,837,202	920,179	796.2	24,882	24,688	17,229,268	1,095,835	937.0	28,111	27,549	19,969,410	1,255,109

	July - December 2020					January - June 2021					TOTAL				
	MMCFD	MMCF	MMBMTU	Sales Rs Million	GLS Rs Million	MMCFD	MMCF	MMBMTU	Sales Rs Million	GLS Rs Million	MMCFD	MMCF	MMBMTU	Sales Rs Million	GLS Rs Million
KARACHI UNIT - A	184					181					365				
POWER - KESC	26.7	4,921	4,823	4,133,364	292,905	26.8	4,855	4,757	4,077,103	288,918	26.8	9,776	9,580	8,210,467	581,822
POWER - BINGASIM	23.7	4,358	4,271	3,660,257	259,379	22.9	4,153	4,070	3,487,985	247,171	23.3	8,511	8,341	7,148,243	506,549
POWER - RLNG	123.0	22,632	21,877	32,745,584	-	123.0	22,262	23,487	32,595,161	-	123.0	44,895	47,364	65,340,744	-
CEMENT	0.4	73	71	91,031	3,063	0.3	48	47	60,279	2,028	0.3	118	118	151,310	5,091
FERTILIZER - Feedstock	56.0	10,297	10,091	3,047,461	20,182	48.3	8,746	8,571	2,598,593	17,143	52.2	19,043	18,662	5,636,054	37,325
FERTILIZER - Power	1.3	241	236	241,674	8,587	0.9	163	159	163,081	5,795	1.1	404	396	404,755	14,382
PAK STEEL	2.1	389	381	401,513	25,656	2.2	393	385	405,717	25,925	2.1	782	766	807,229	51,381
CNG STATIONS	2.3	431	422	569,777	46,498	0.5	90	88	118,816	9,696	1.4	520	510	688,593	56,194
CNG STATIONS (RLNG)	31.0	5,708	6,022	8,238,392	-	33.1	2,370	2,501	3,470,478	-	22.1	8,078	8,522	11,728,869	-
CAPTIVE POWER	51.5	9,479	9,290	10,087,764	932,208	42.1	7,616	7,463	8,112,774	748,958	77.2	17,095	16,733	18,210,538	1,481,166
CAPTIVE POWER (TEXTILE)	17.4	3,196	3,372	4,624,243	-	21.4	3,871	4,084	5,667,316	-	19.4	7,067	7,406	10,291,758	-
ZERO-RATED INDUSTRIES	112.0	20,601	20,189	17,201,056	1,866,476	94.0	17,011	16,670	14,203,149	1,541,175	103.0	37,612	36,859	31,404,205	3,407,651
GENERAL INDUSTRIES (RLNG)	138.2	25,432	24,914	20,404,674	1,481,145	126.7	22,928	22,470	18,402,844	1,335,835	132.5	48,351	47,384	38,807,517	2,816,980
GENERAL INDUSTRIES	2.3	431	455	633,331	-	2.5	458	484	671,197	-	2.4	889	938	1,294,527	-
COMMERCIAL	82.9	15,262	14,957	15,764,473	1,007,341	71.5	12,934	12,675	13,359,390	853,657	77.2	28,196	27,632	29,123,863	1,860,998
COMMERCIAL (RLNG)	20.8	3,835	3,738	4,821,973	162,248	16.8	3,046	2,985	3,830,362	128,883	18.9	6,881	6,744	8,652,336	291,131
COMMERCIAL (SPRT)	2.7	497	524	718,472	-	2.2	406	428	594,657	-	2.5	903	952	1,313,128	-
DOMESTIC (RLNG)	0.0	6	6	8,073	-	0.5	88	86	60,055	-	0.5	196	192	134,166	-
DOMESTIC	162.4	29,882	29,284	12,102,319	115,801	198.1	35,848	35,131	15,084,054	145,292	180.1	65,729	64,415	27,186,372	261,093
SUB TOTAL 'A'	857.4	157,768	157,048	139,589,540	6,221,490	813.8	147,302	146,559	126,975,074	5,350,475	835.8	305,070	303,607	266,564,613	11,571,965
SINDH UNIT - B															
POWER - WAPDA															
NOORJABAD POWER PLANT															
CEMENT	17.4	3,194	3,130	2,682,499	190,091	16.1	2,907	2,849	2,441,487	173,012	16.7	6,101	5,979	5,123,986	363,103
CNG STATIONS	0.1	10	10	12,397	0,417	0.0	2	2	2,918	0,100	0.0	12	12	15,375	0,517
CNG STATIONS (RLNG)	1.5	268	262	354,315	28,915	0.5	89	88	118,145	9,642	1.0	357	350	472,460	38,556
CAPTIVE POWER	20.5	3,770	3,978	5,454,930	-	11.4	2,059	2,173	3,015,247	-	16.0	5,830	6,150	8,470,177	-
CAPTIVE POWER (RLNG)	24.3	4,462	4,373	4,733,571	438,842	23.6	4,265	4,180	4,543,118	419,413	23.9	8,727	8,553	9,296,689	838,255
CAPTIVE POWER (TEXTILE)	0.3	60	63	86,213	-	1.0	173	183	253,850	-	0.6	233	246	340,063	-
ZERO-RATED INDUSTRIES	36.3	6,671	6,538	5,569,984	604,396	31.2	5,649	5,536	4,717,014	511,843	33.8	12,320	12,074	10,287,018	1,116,238
GENERAL INDUSTRIES (RLNG)	2.1	386	378	309,593	22,473	2.0	356	349	285,512	20,725	2.0	741	727	595,105	43,198
GENERAL INDUSTRIES	2.4	435	459	629,993	-	4.2	763	805	1,117,249	-	3.3	1,199	1,264	1,747,242	-
COMMERCIAL	10.5	1,931	1,893	1,994,933	127,475	9.2	1,666	1,632	1,720,439	109,935	9.9	3,597	3,525	3,715,372	237,410
COMMERCIAL (RLNG)	4.1	763	747	948,946	37,266	3.8	688	674	855,085	29,108	4.0	1,451	1,422	1,824,031	61,374
COMMERCIAL (SPRT)	0.8	143	151	207,260	-	0.6	113	120	166,161	-	0.7	257	271	373,421	-
DOMESTIC (RLNG)	0.1	17	17	11,705	-	0.1	12	12	8,369	-	0.1	29	29	20,073	-
DOMESTIC	69.4	12,779	12,523	5,233,381	49,512	89.6	16,219	15,895	6,939,314	66,519	79.4	28,998	28,418	12,171,695	116,032
SUB TOTAL 'B'	189.7	34,897	34,530	28,270,029	1,494,387	193.3	34,984	34,519	26,224,616	1,340,297	191.5	69,881	69,049	54,494,646	2,834,684
QUETTA (ONGDP)															
POWER - WAPDA															
HABIBULLAH COASTAL POWER (NG)															
HABIBULLAH COASTAL POWER (RLNG)															
CNG STATIONS	10.0	1,840	1,803	1,545,342	109,508	10.0	1,810	1,774	1,520,147	107,723	10.0	3,650	3,577	3,065,489	217,231
CAPTIVE POWER	1.9	344	337	461,721	44,175	1.0	216	212	290,176	27,762	1.5	560	548	751,897	71,937
GENERAL INDUSTRIES	0.1	11	11	12,072	1,114	0.0	9	8	9,150	0,845	0.1	20	20	21,223	1,959
COMMERCIAL	1.3	246	241	254,181	16,242	0.9	162	159	167,200	10,684	1.1	408	400	421,381	26,926
COMMERCIAL (SPRT)	1.9	355	348	446,547	15,025	2.0	356	349	447,575	15,060	1.9	711	697	894,122	30,085
DOMESTIC	1.2	222	218	157,475	-	1.1	196	192	134,360	-	1.1	418	410	286,834	-
DOMESTIC	41.5	7,637	7,484	3,600,817	34,159	49.3	8,924	8,745	4,229,719	40,519	45.4	16,561	16,230	7,830,536	74,678
SUB TOTAL 'C'	67.9	12,496	12,246	8,946,139	220,274	74.5	13,482	13,212	9,259,951	202,591	71.2	25,978	25,458	18,206,089	422,817
GRAND TOTAL	1,115.0	205,160	203,823	176,805,708	7,956,100	1,081.6	195,768	194,291	162,489,641	6,893,366	1,098.4	400,928	398,115	339,265,548	14,829,466
TOTAL RLNG	210.5	38,725	40,717	55,840,783	-	189.6	34,324	36,076	50,065,031	-	200.1	73,049	76,793	105,906,414	-
TOTAL NG	904.5	166,435	163,107	120,964,925	7,956,100	892.0	161,444	158,215	112,394,610	6,893,366	898.3	327,879	321,321	233,358,935	14,829,466

Table # C-7

SUI SOUTHERN GAS COMPANY LIMITED
BASIS / ASSUMPTIONS
ERR FOR FY 2021-22

Exchange Parity Rs per US\$

Crude oil US\$ per Barrel

Average FOB Prices

Freight

Average C&F Prices

MMBTU/BBL

HSFO US\$ per M.Ton.

Average FOB Prices

Freight

Average C&F Prices

MMBTU per M.Ton.

Rs per MMBTU

SSGCL Average Cost of Gas

Petition		Averages	Determination		Averages
Jul.-Dec.21	Jan.-Jun.22		Jul.-Dec.20	Jan.-Jun.21	
168.0000	170.0000	169.00	168.0000	170.0000	169.00
50.8700	56.3900	53.6300	45.7313	34.4813	40.1063
0.9921	0.9921	0.9921	0.5187	0.5187	0.5187
51.8621	57.3821	54.6221	46.2500	35.0000	40.6250
5.5320	5.5320		5.6098	5.6098	
294.8400	344.5800	319.7100	214.4099	252.3399	233.3749
7.5092	7.5092	7.5092	4.3701	4.3701	4.3701
302.3492	352.0892	327.2192	218.7800	256.7100	237.7450
41.8723	41.8723		40.7920	40.7920	
		611.39			526.12

Notes :

1. The Cost of gas purchased is based on projected wellhead gas prices effective July 2020 worked out on estimated average C&F price for crude Oil at US\$ 54.62 per barrel and HSFO US\$ 327.22 per metric ton.
2. Crude Oil average prices are based on Natural Gas forecast for 2022 International market price available on internet.
3. Whereas, HSFO prices are escalated by around 2% per month based on actual data upto November 2020.
4. Rupee v/s US\$ parity has been maintained at Rs.169 for the said year in line with OGRA DERR FY 2020-21 dated: 14 July 2020.
5. 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 OGRA Ordinance, 2002.
6. Projected weighted average cost of gas has been worked out at Rs. 611.39 per MMBTU for the FY 2021-22 as compared to cost of gas worked out in the DERR FY 2020-21 of Rs. 526.12 per MMBTU.

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF FIELD WISE INDIGENOUS GAS PURCHASES
FOR FY 2021-22

S.No.	GAS FIELD	MMCFD	MMCF	MMMBTU	Rs per MMBTU	Rupees Million
1	Sui	110.0	40,150	38,424	462.39	17,767
2	Kandhkot	1.0	365	365	256.96	94
3	Mazarani	2.0	730	741	295.74	219
4	Gambat Block - Wafiq/Shahdad-(XI)	93.0	33,945	32,757	425.31	13,932
5	Adam X-1 / Hala	11.0	4,015	4,244	453.64	1,925
6	Hadaif X-1 & Badeel X-1	12.0	4,380	4,380	453.64	1,987
7	Badin Block	25.8	9,417	10,359	440.13	4,559
8	Khipro Block - Naimat Basal	167.0	60,955	58,090	790.18	45,902
9	Mirpurkhas Block - Kausar	61.0	22,265	23,178	782.28	18,132
10	Mitha	3.0	1,095	1,096	782.28	857
11	Kotri	0.1	29	28	782.28	22
13	Kadanwari	66.0	24,090	24,114	1,254.37	30,248
	Bhit	68.0	24,820	23,926	569.70	13,631
15	Miano	10.7	3,893	3,897	530.41	2,067
16	Sawan	10.8	3,954	4,009	530.41	2,127
17	Maher / Mubarak Block	25.0	9,125	9,882	425.31	4,203
19	Latif	10.0	3,650	3,701	453.64	1,679
20	Zamzama	1.0	365	291	515.20	150
21	Kirthar (Rehman)-EWT	30.8	11,242	9,758	818.68	7,989
22	Rizq - EWT	24.2	8,833	7,667	818.68	6,277
23	Zargoan	19.0	6,935	6,574	580.63	3,817
24	Mari	1.0	365	365	256.96	94
25	Sujawal / Sujjal	1.0	365	385	518.35	199
26	Sujjal	12.0	4,380	4,617	518.35	2,393
27	Aqeeq-I	1.0	365	402	518.35	208
28	SNGPL Towns-(Ghotki, Rustam, SherAli, Ubaro, etc.)	3.9	1,431	1,431	780.00	1,116
29	Sari / Hundi	1.0	365	329	740.74	243
30	Sinjhoro	16.0	5,840	5,974	425.31	2,541
31	Bobi	2.0	730	822	522.87	430
32	Pasaki Deep & Kunnar Deep	119.0	43,431	44,474	436.45	19,411
33	Tay/Dars	44.0	16,064	16,449	425.31	6,996
34	Pakhro / Noorai Jagir/ Daru	1.2	434	516	393.43	203
35	Nur Bagla fields	2.0	730	784	393.43	308
36	Dachrapur / Jakhro / Gopang	1.0	365	434	393.43	171
37	Chutto-01	7.5	2,738	3,255	393.43	1,281
38	Bitrism	5.3	1,938	2,304	393.43	907
40	Suleman	25.0	9,125	9,125	393.43	3,590
41	Mangrio	8.0	2,920	2,920	393.43	1,149
42	Ayesha / Aminah / Ayesha (North)	10.0	3,650	3,464	440.13	1,525
43	Zainab	3.0	1,095	1,095	288.07	315
44	Bitro	3.0	1,095	1,110	453.64	504
44	Gas Purchases	1,018.3	371,680	367,737	601.43	221,166
45	Excise duty				10.00	3,663
46	SSGCL Average input Cost of Gas	1,018.3	371,680	367,737	611.39	224,829

Table # C-8.1

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF FIELD WISE INDIGENOUS
GAS PURCHASES
FOR FY 2021-22

GAS PURCHASES FOR ERR FY 2021-22				Jul-21			Aug-21			Sep-21				
S.No.	GAS FIELD	MMCFD	MMCF	BBTUD	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million
1	Sui	110	3,410	105	3,263	1,470	110	3,410	3,263	1,470	110	3,300	3,158	1,423
2	Kandhkot	1	31	1	31	8	1	31	31	8	1	30	30	7
3	Mazarani	2	62	2	63	19	2	62	63	19	2	60	61	18
4	Gambat Block - Wafiq/Shahdad-(XI)	93	2,883	90	2,782	1,176	93	2,883	2,782	1,176	93	2,790	2,692	1,138
5	Adam X-1 / Hala	11	341	12	360	163	11	341	360	163	11	330	349	157
6	Hadaf X-1 & Badeel X-1	12	372	12	372	168	12	372	372	168	12	360	360	162
7	Badin Block	26	800	28	880	384	26	800	880	384	26	774	851	372
8	Khipro Block - Naimat Basal	167	5,177	159	4,934	3,800	167	5,177	4,934	3,800	167	5,010	4,775	3,677
9	Mirpurkhas Block - Kausar	61	1,891	64	1,969	1,501	61	1,891	1,969	1,501	61	1,830	1,905	1,453
10	Mitha	3	93	3	93	71	3	93	93	71	3	90	90	69
11	Unarpur - Kotri	0	2	0	2	2	0	2	2	2	0	2	2	2
12	Kadanwari	66	2,046	66	2,048	2,360	66	2,046	2,048	2,360	66	1,980	1,982	2,284
13	Bhit & Bhadra	68	2,108	66	2,032	1,126	68	2,108	2,032	1,126	68	2,040	1,967	1,090
14	Miano	11	331	11	331	171	11	331	331	171	11	320	320	165
15	Sawan	11	336	11	341	176	11	336	341	176	11	325	330	170
16	Maher / Mubarak Block	25	775	27	839	355	25	775	839	355	25	750	812	343
18	Latif	10	310	10	314	142	10	310	314	142	10	300	304	137
19	Zanzama	1	31	1	25	12	1	31	25	12	1	30	24	12
20	Kirthar (Rehman)-EWT	31	955	27	829	661	31	955	829	661	31	924	802	640
21	Rizq - EWT	24	750	21	651	520	24	750	651	520	24	726	630	503
22	Zargoon	19	589	18	558	320	19	589	558	320	19	570	540	310
23	Mari	1	31	1	31	8	1	31	31	8	1	30	30	7
24	Sujawal	1	31	1	33	17	1	31	33	17	1	30	32	16
25	Sujal	12	372	13	392	200	12	372	392	200	12	360	379	193
26	Aqeeq-1	1	31	1	34	17	1	31	34	17	1	30	33	17
27	SNGPL Towns-(Ghotki, Rustam, SherAli,	4	122	4	122	95	4	122	122	95	4	118	118	92
28	Sari / Hundi	1	31	1	28	19	1	31	28	19	1	30	27	18
29	Sinhoro	16	496	16	507	215	16	496	507	215	16	480	491	208
30	Bobbi	2	62	2	70	34	2	62	70	34	2	60	68	32
31	Pasaki Deep & Kunnar Deep	119	3,689	122	3,777	1,633	119	3,689	3,777	1,633	119	3,570	3,655	1,580
32	Tay/Dars	44	1,364	45	1,397	591	44	1,364	1,397	591	44	1,320	1,352	572
33	Pakro / Noorai Jagir/ Daru	1	37	1	44	17	1	37	44	17	1	36	42	17
34	Nur Bagla fields	2	62	2	67	26	2	62	67	26	2	60	64	25
35	Dachrapur / Jakhro / Gopang	1	31	1	37	14	1	31	37	14	1	30	36	14
36	Chutto-01	8	233	9	276	108	8	233	276	108	8	225	268	105
37	Bitrism	5	165	6	196	77	5	165	196	77	5	159	189	74
39	Suleman	25	775	25	775	303	25	775	775	303	25	750	750	293
40	Mangrio	8	248	8	248	97	8	248	248	97	8	240	240	94
41	Ayesha / Aminah / Ayesha (North)	10	310	9	294	129	10	310	294	129	10	300	285	124
42	Zainab	3	93	3	93	41	3	93	93	41	3	90	90	39
43	Bitro	3	93	3	94	43	3	93	94	43	3	90	91	41
44	Gas Purchases	1,018	31,567	1,007	31,232	18,286	1,018	31,567	31,232	18,286	1,018	30,549	30,225	17,696
45	Excise duty					311				311				301
46	SSGCL Average input Cost of Gas	1,018	31,567		31,232	18,597	1,018	31,567	31,232	18,597	1,018	30,549	30,225	17,997
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SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF FIELD WISE INDIGENOUS
GAS PURCHASES
FOR FY 2021-22

S.No.	GAS FIELD	Oct-21				Nov-21				Dec-21			
		MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million
1	Sui	110	3,410	3,263	1,470	110	3,300	3,158	1,423	110	3,410	3,263	1,470
2	Kandhkot	1	31	31	8	1	30	30	7	1	31	31	8
3	Mazarani	2	62	63	19	2	60	61	18	2	62	63	19
4	Gambat Block - Wafiq/Shahdad-(XI)	93	2,883	2,782	1,176	93	2,790	2,692	1,138	93	2,883	2,782	1,176
5	Adam X-1 / Hala	11	341	360	163	11	330	349	157	11	341	360	163
6	Hadaif X-1 & Badeel X-1	12	372	372	168	12	360	360	162	12	372	372	168
7	Badin Block	26	800	880	384	26	774	851	372	26	800	880	384
8	Khipro Block - Naimat Basal	167	5,177	4,934	3,800	167	5,010	4,775	3,677	167	5,177	4,934	3,800
9	Mirpurkhas Block - Kausar	61	1,891	1,969	1,501	61	1,830	1,905	1,453	61	1,891	1,969	1,501
10	Mitha	3	93	93	71	3	90	90	69	3	93	93	71
11	Unarpur - Kotri	0	2	2	2	0	2	2	2	0	2	2	2
12	Kadanwari	66	2,046	2,048	2,360	66	1,980	1,982	2,284	66	2,046	2,048	2,360
13	Bhit & Bhudra	68	2,108	2,032	1,126	68	2,040	1,967	1,090	68	2,108	2,032	1,126
14	Miano	11	331	331	171	11	320	320	165	11	331	331	171
15	Sawan	11	336	341	176	11	325	330	170	11	336	341	176
16	Maher / Mubarak Block	25	775	839	355	25	750	812	343	25	775	839	355
18	Latif	10	310	314	142	10	300	304	137	10	310	314	142
19	Zamzama	1	31	25	12	1	30	24	12	1	31	25	12
20	Kirthar (Rehman)-EWT	31	955	829	661	31	924	802	640	31	955	829	661
21	Rizq - EWT	24	750	651	520	24	726	630	503	24	750	651	520
22	Zargoan	19	589	558	320	19	570	540	310	19	589	558	320
23	Mari	1	31	31	8	1	30	30	7	1	31	31	8
24	Sujawal	1	31	33	17	1	30	32	16	1	31	33	17
25	Sujjal	12	372	392	200	12	360	379	193	12	372	392	200
26	Aocq-1	1	31	34	17	1	30	33	17	1	31	34	17
27	SNGPL Towns-(Chotki, Rustam, SherAli,	4	122	122	95	4	118	118	92	4	122	122	95
28	Sari / Hundi	1	31	28	19	1	30	27	18	1	31	28	19
29	Sujthoro	16	496	507	215	16	480	491	208	16	496	507	215
30	Bob	2	62	70	34	2	60	68	32	2	62	70	34
31	Pasaki Deep & Kunar Deep	119	3,689	3,777	1,633	119	3,570	3,655	1,580	119	3,689	3,777	1,633
32	Tay/Dars	44	1,364	1,397	591	44	1,320	1,352	572	44	1,364	1,397	591
33	Pakhro / Noorai Jagir/ Daru	1	37	44	17	1	36	42	17	1	37	44	17
34	Nur Bagla fields	2	62	67	26	2	60	64	25	2	62	67	26
35	Dachrapur / Jakhro / Gopang	1	31	37	14	1	30	36	14	1	31	37	14
36	Chutto-01	8	233	276	108	8	225	268	105	8	233	276	108
37	Bitrism	5	165	196	77	5	159	189	74	5	165	196	77
39	Suleman	25	775	775	303	25	750	750	293	25	775	775	303
40	Mangrio	8	248	248	97	8	240	240	94	8	248	248	97
41	Ayesha / Aminah / Ayesha (North)	10	310	294	129	10	300	285	124	10	310	294	129
42	Zainab	3	93	93	41	3	90	90	39	3	93	93	41
43	Bitro	3	93	94	43	3	90	91	41	3	93	94	43
44	Gas Purchases	1,018	31,567	31,232	18,286	1,018	30,549	30,225	17,696	1,018	31,567	31,232	18,286
45	Excise duty				311				301				311
46	SSGCL Average input Cost of Gas	1,018	31,567	31,232	18,597	1,018	30,549	30,225	17,997	1,018	31,567	31,232	18,597
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Table # C-8.1

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF FIELD WISE INDIGENOUS
GAS PURCHASES
FOR FY 2021-22

S.No.	GAS FIELD	Jan-22				Feb-22				Mar-22			
		MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million
1	Sui	110	3,410	3,263	1,548	110	3,080	2,948	1,399	110	3,410	3,263	1,548
2	Kandhkot	1	31	31	8	1	28	28	7	1	31	31	8
3	Mazarani	2	62	63	19	2	56	57	17	2	62	63	19
4	Gambat Block - Wafiq/Shahdad-(X1)	93	2,883	2,782	1,190	93	2,604	2,513	1,075	93	2,883	2,782	1,190
5	Adam X-1 / Hala	11	341	360	164	11	308	326	149	11	341	360	164
6	Hadaif X-1 & Badeel X-1	12	372	372	170	12	336	336	153	12	372	372	170
7	Badin Block	26	800	880	390	26	722	795	352	26	800	880	390
8	Khipro Block - Naimat Basal	167	5,177	4,934	3,999	167	4,676	4,456	3,612	167	5,177	4,934	3,999
9	Mirpurkhas Block - Kausar	61	1,891	1,969	1,579	61	1,708	1,778	1,426	61	1,891	1,969	1,579
10	Mitha	3	93	93	75	3	84	84	67	3	93	93	75
11	Unarpur - Kotri	0	2	2	2	0	2	2	2	0	2	2	2
12	Kadanwari	66	2,046	2,048	2,781	66	1,848	1,850	2,512	66	2,046	2,048	2,781
13	Bhit & Bhadra	68	2,108	2,032	1,190	68	1,904	1,835	1,075	68	2,108	2,032	1,190
14	Miano	11	331	331	180	11	299	299	163	11	331	331	180
15	Sawan	11	336	341	186	11	303	308	168	11	336	341	186
16	Maher / Mubarak Block	25	775	839	359	25	700	758	324	25	775	839	359
18	Latif	10	310	314	143	10	280	284	130	10	310	314	143
19	Zamzama	1	31	25	13	1	28	22	12	1	31	25	13
20	Kirthar (Rohman)-EWT	31	955	829	696	31	862	749	629	31	955	829	696
21	Rizq - EWT	24	750	651	547	24	678	588	494	24	750	651	547
22	Zargoan	19	589	558	328	19	532	504	296	19	589	558	328
23	Mari	1	31	31	8	1	28	28	7	1	31	31	8
24	Sujawal	1	31	33	17	1	28	30	16	1	31	33	17
25	Sujjal	12	372	392	207	12	336	354	187	12	372	392	207
26	Aqeeq-1	1	31	34	18	1	28	31	16	1	31	34	18
27	SNGPL Towns-(Ghotki, Rustam, SherAli,	4	122	122	95	4	110	110	86	4	122	122	95
28	Sari / Hundi	1	31	28	22	1	28	25	20	1	31	28	22
29	Sinjhor	16	496	507	217	16	448	458	196	16	496	507	217
30	Bob	2	62	70	40	2	56	63	36	2	62	70	40
31	Pasaki Deep & Kunnar Deep	119	3,689	3,777	1,664	119	3,332	3,412	1,503	119	3,689	3,777	1,664
32	Tay/Dars	44	1,364	1,397	598	44	1,232	1,262	540	44	1,364	1,397	598
33	pakhro / Noorai Jagir/ Daru	1	37	44	17	1	33	40	16	1	37	44	17
34	Nur Bagla fields	2	62	67	26	2	56	60	24	2	62	67	26
35	Dachrapur / Jakhro / Gopang	1	31	37	15	1	28	33	13	1	31	37	15
36	Chutto-01	8	233	276	109	8	210	250	99	8	233	276	109
37	Bitrim	5	165	196	77	5	149	177	70	5	165	196	77
39	Suleman	25	775	775	307	25	700	700	277	25	775	775	307
40	Mangrio	8	248	248	98	8	224	224	89	8	248	248	98
41	Ayesha / Aminah / Ayesha (North)	10	310	294	130	10	280	265	118	10	310	294	130
42	Zainab	3	93	93	41	3	84	84	37	3	93	93	41
43	Bitro	3	93	94	43	3	84	85	39	3	93	94	43
44	Gas Purchases	1,018	31,567	31,232	19,319	1,018	28,512	28,210	17,450	1,018	31,567	31,232	19,319
45	Excise duty				311				281				311
46	SSGCL Average input Cost of Gas	1,018	31,567	31,232	19,630	1,018	28,512	28,210	17,731	1,018	31,567	31,232	19,630
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Table # C-8.1

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF FIELD WISE INDIGENOUS
GAS PURCHASES
FOR FY 2021-22

S.No.	GAS FIELD	Apr-22				May-22				Jun-22			
		MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million
1	Sui	110	3,300	3,158	1,498	110	3,410	3,263	1,548	110	3,300	3,158	1,498
2	Kandhkot	1	30	30	8	1	31	31	8	1	30	30	8
3	Mazarani	2	60	61	18	2	62	63	19	2	60	61	18
4	Gambat Block - Wafiq/Shahdad-(Xi)	93	2,790	2,692	1,152	93	2,883	2,782	1,190	93	2,790	2,692	1,152
5	Adam X-1 / Hala	11	330	349	159	11	341	360	164	11	330	349	159
6	Hadaf X-1 & Badeel X-1	12	360	360	164	12	372	372	170	12	360	360	164
7	Badin Block	26	774	851	377	26	800	880	390	26	774	851	377
8	Khipro Block - Naimat Basal	167	5,010	4,775	3,870	167	5,177	4,934	3,999	167	5,010	4,775	3,870
9	Mirpurkhas Block - Kausar	61	1,830	1,905	1,528	61	1,891	1,969	1,579	61	1,830	1,905	1,528
10	Mitha	3	90	90	72	3	93	93	75	3	90	90	72
11	Unarpur - Kotri	0	2	2	2	0	2	2	2	0	2	2	2
12	Kadanwari	66	1,980	1,982	2,692	66	2,046	2,048	2,781	66	1,980	1,982	2,692
13	Bhit & Bhadra	68	2,040	1,967	1,131	68	2,108	2,032	1,190	68	2,040	1,967	1,131
14	Miano	11	320	320	175	11	331	331	180	11	320	320	175
15	Sawan	11	325	330	180	11	336	341	186	11	325	330	180
16	Maher / Mubarak Block	25	750	812	348	25	775	839	359	25	750	812	348
17	Latif	10	300	304	139	10	310	314	143	10	300	304	139
18	Zamzama	1	30	24	13	1	31	25	13	1	30	24	13
19	Kirthar (Rehman) EWT	31	924	802	674	31	955	829	696	31	924	802	674
20	Rizq - EWT	24	726	630	529	24	750	651	547	24	726	630	529
21	Zargoan	19	570	540	317	19	589	558	328	19	570	540	317
22	Mari	1	30	30	8	1	31	31	8	1	30	30	8
23	Sujawal	1	30	32	17	1	31	33	17	1	30	32	17
24	Aqeeq-1	12	360	379	200	12	372	392	207	12	360	379	200
25	Sujjal	1	30	33	17	1	31	34	18	1	30	33	17
26	SNGPL Towns-(Ghotki, Rustam, SherAli,	4	118	118	92	4	122	122	95	4	118	118	92
27	Sari / Hundi	1	30	27	22	1	31	28	22	1	30	27	22
28	Sinhoro	16	480	491	210	16	496	507	217	16	480	491	210
29	Bobbi	2	60	68	38	2	62	70	40	2	60	68	38
30	Pasaki Deep & Kunnar Deep	119	3,570	3,655	1,611	119	3,689	3,777	1,664	119	3,570	3,655	1,611
31	Tay/Dars	44	1,320	1,352	578	44	1,364	1,397	598	44	1,320	1,352	578
32	Pakdro / Noorai Jagir/ Daru	1	36	42	17	1	37	44	17	1	36	42	17
33	Nur Bagla fields	2	60	64	26	2	62	67	26	2	60	64	26
34	Dachtrapur / Jakdro / Gopang	1	30	36	14	1	31	37	15	1	30	36	14
35	Chutto-01	8	225	268	106	8	233	276	109	8	225	268	106
36	Bitrim	5	159	189	75	5	165	196	77	5	159	189	75
37	Suleman	25	750	750	297	25	775	775	307	25	750	750	297
38	Mangrio	8	240	240	95	8	248	248	98	8	240	240	95
39	Ayasha / Aminah / Ayasha (North)	10	300	285	126	10	310	294	130	10	300	285	126
40	Zainab	3	90	90	40	3	93	93	41	3	90	90	40
41	Bitro	3	90	91	42	3	93	94	43	3	90	91	42
42	Gas Purchases	1,018	30,549	30,225	18,696	1,018	31,567	31,232	19,319	1,018	30,549	30,225	18,696
43	Excise duty				301				311				301
44	SSGCL Average input Cost of Gas	1,018	30,549	30,225	18,997	1,018	31,567	31,232	19,630	1,018	30,549	30,225	18,997

Table # C-8.1

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF FIELD WISE INDIGENOUS
GAS PURCHASES
FOR FY 2021-22

S.No.	GAS FIELD	Jul. - Dec '21				Jan. - Jun '22				SSGCL TOTAL			
		MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million
1	Sui	110	20,240	19,370	8,726	110	19,910	19,054	9,041	110.00	40,150	38,424	17,766.640
2	Kandhkot	1	184	184	46	1	181	181	48	1.00	365	365	93.789
3	Mazarani	2	368	374	110	2	362	367	109	2.00	730	741	219.125
4	Gambat Block - Wafiq/Shahdud(XI)	93	17,112	16,513	6,982	93	16,833	16,244	6,950	93.00	33,945	32,757	13,931.949
5	Adam X-1 / Hala	11	2,024	2,139	965	11	1,991	2,104	960	11.00	4,015	4,244	1,925.176
6	Hadaf X-1 & Badeel X-1	12	2,208	2,208	996	12	2,172	2,172	991	12.00	4,380	4,380	1,986.936
7	Badin Block	26	4,747	5,222	2,282	26	4,670	5,137	2,277	25.80	9,417	10,359	4,559.193
8	Khupro Block - Naimat Basal	167	30,728	29,284	22,552	167	30,277	28,806	23,349	167.00	60,955	58,090	45,901.638
9	Mirpurkhas Block - Kausar	61	11,224	11,684	8,911	61	11,041	11,494	9,221	61.00	22,265	23,178	18,131.610
10	Mitha	3	552	553	421	3	543	544	436	3.00	1,095	1,096	857.455
11	Unarpur - Kotri	0	15	14	11	0	14	14	11	0.08	29	28	21.838
12	Kadanwari	66	12,144	12,156	14,009	66	11,946	11,958	16,239	66.00	24,090	24,114	30,247.956
13	Bhit & Bhadra	68	12,512	12,062	6,685	68	12,308	11,865	6,946	68.00	24,820	23,926	13,630.895
14	Miano	11	1,963	1,965	1,014	11	1,931	1,933	1,053	10.67	3,893	3,897	2,067.191
15	Sawan	11	1,993	2,021	1,043	11	1,961	1,988	1,084	10.83	3,954	4,009	2,126.625
16	Maher / Mubarak Block	25	4,680	4,982	2,106	25	4,525	4,901	2,097	25.00	9,125	9,882	4,203.103
18	Latif	10	1,840	1,866	841	10	1,810	1,835	838	10.00	3,650	3,701	1,678.961
19	Zamzama	1	184	147	74	1	181	144	77	1.00	365	291	150.062
20	Kirthar (Rehman)-EWT	31	5,667	4,919	3,924	31	5,575	4,839	4,064	30.80	11,242	9,758	7,988.754
21	Rizq - EWT	24	4,453	3,865	3,083	24	4,380	3,802	3,193	24.20	8,833	7,667	6,276.878
22	Zargoan	19	3,496	3,314	1,902	19	3,439	3,260	1,915	19.00	6,935	6,574	3,817.255
23	Mari	1	184	184	46	1	181	181	48	1.00	365	365	93.789
24	Sujawal	1	184	194	99	1	181	191	101	1.00	365	385	199.416
25	Sujjal	12	2,208	2,327	1,187	12	2,172	2,289	1,206	12.00	4,380	4,617	2,392.992
26	Aqeeq-1	1	184	202	103	1	181	199	105	1.00	365	402	208.119
27	SNGL. Towns-(Ghotki, Rustam, SherAli,	4	721	721	563	4	710	710	553	3.92	1,431	1,431	1,116.070
28	Sari / Hundi	1	184	166	113	1	181	163	131	1.00	365	329	243.332
29	Singhoro	16	2,944	3,012	1,273	16	2,896	2,963	1,268	16.00	5,840	5,974	2,540.956
30	Bob	2	368	414	199	2	362	408	231	2.00	730	822	429.792
31	Pasaki Deep & Kunwar Deep	119	21,894	22,420	9,692	119	21,537	22,054	9,718	118.99	43,431	44,474	19,410.724
32	Tay/Dars	44	8,098	8,292	3,506	44	7,966	8,157	3,490	44.01	16,064	16,449	6,996.051
33	Pakthro / Noorai Jagir/ Daru	1	219	260	102	1	215	256	101	1.19	434	516	203.183
34	Nur Bagla fields	2	368	395	155	2	362	389	154	2.00	730	784	308.456
35	Dachrapur / Jakhro / Gopang	1	184	219	86	1	181	215	85	1.00	365	434	170.742
36	Chutto-01	8	1,380	1,641	642	8	1,358	1,614	639	7.50	2,738	3,255	1,280.565
37	Bitrisim	5	977	1,162	454	5	961	1,143	452	5.31	1,938	2,304	906.640
39	Suliman	25	4,600	4,600	1,799	25	4,525	4,525	1,791	25.00	9,125	9,125	3,590.033
40	Mangrio	8	1,472	1,472	576	8	1,448	1,448	573	8.00	2,920	2,920	1,148.811
41	Ayesha / Aminah / Ayesha (North)	10	1,840	1,746	763	10	1,810	1,718	762	10.00	3,650	3,464	1,524.550
42	Zainab	3	552	552	241	3	543	543	74	0.47	1,095	1,095	315.441
43	Bitro	3	552	560	252	3	543	551	251	3.00	1,095	1,110	503.688
44	Gas Purchases	1,018	187,367	185,380	108,534	1,018	184,312	182,357	112,632	1,018.30	371,680	367,737	221,166.380
45	Excise duty				1,847				1,816				3,663.059
46	SSGCL Average input Cost of Gas	1,018	187,367	185,380	110,381	1,018	184,312	182,357	114,449	1,018.30	371,680	367,737	224,829.439

Table # C-9

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

MMCF

CATEGORY	ERR Petition FY 2020-21	ERR Petition FY 2021-22
CONSOLIDATED		
1-Transmission System		
Gas handled in transmission system	456,205	457,539
Gas used in Transmission System	(2,933)	(2,759)
Gas available in transmission system	453,273	454,780
Gas Consumed Internally - unmetered	(25)	(25)
Gas available (net) in transmission system "A"	453,248	454,755
Gas passed to Distribution System through SMS (B)	453,020	454,527
Loss/(Gain) in Transmission System (A-B)	228	228
Percentage (A-B)/A x 100	0.05%	0.05%
2- Distribution System		
Gas received in Distribution Network	453,020	454,527
Damage by third party - unmetered	(364)	(364)
Gas available for sale (net) "C"	452,655	454,162
Gas Sales	373,249	327,879
Purchases - RLNG held stock	26,363	73,049
Deemed Sales - (recovered from RLNG customer through pricing)		11,214
Add: Gas Shrinkage	2,783	40
"D"	402,394	412,182
Loss in Distribution System E = C-D	50,261	41,981
Percentage (E/Cx100)	11.10%	9.24%
3- Total UFG A=(1C+2E)	50,489	42,209
As %age of gas available for sale 3A/(1A+2B)x100	11.15%	9.29%
WORKING FOR UFG AS PER OGRA FORMAT		
GAS AVAILABLE (NET) IN TRANSMISSION SYSTEM "	453,248	454,755
Damage by third party - unmetered	(364)	(364)
Gas available for sale	452,883	454,391
GAS SALES	402,394	412,182
UFG Volumes	50,489	42,209
UFG %	11.15	9.29

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SUI SOUTHERN GAS COMPANY LIMITED
 PETITION FOR ESTIMATED REVENUE REQUIREMENT
 FY 2021-22
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SUI SOUTHERN GAS COMPANY LIMITED

28-12-20

STATUS OF MAJOR PROJECTS FY 2020-21 & FY 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 namely Mangrio, Mithri, Chabbaro, Gundanwari, Hadaf & Badeel, Benari, etc. in order to meet country energy demands.

By commissioning of planned transmission pipeline projects, gas transmission network is expected to increase by 17 Km in FY 2020-21, whereas SSGC's gas transmission network is expected to increase by 147 Km. in FY 2021-22,

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

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

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

Brief on proposed major transmission projects envisaged 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 30" DIAMETER x 125 KMs (Revised 116KM) Pipeline from SMS Sindh University to SMS Pakland

Existing pipeline transmission capacity in left bank from Hyderabad to Karachi is a bottleneck for additional gas volume, and cause the curtailment of the indigenous gas supply, hence the proposed

SUI SOUTHERN GAS COMPANY LIMITED

STATUS OF MAJOR PROJECTS FY 2020-21 & FY 2021-22 (ERR)

30" diameter x 125 Km transmission pipeline project between Sindh University to Pakland is required.

This proposed pipeline will increase the transmission system capacity up to 247 MMSCFD. The project has been divided into following two segments:

- (i) 30" diameter x 50 Km Pipeline from SMS Sindh University to MVA RS-4
- (ii) 30" diameter x 66 Km Pipeline from MVA RS-4 to MVA Pakland

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 at Bin Qasim hence procurement of remaining project material and land acquisition activities are under process, whereas pipeline construction activities will be commenced after completion of land acquisition process.

30"dia. X 116 Km pipeline project which was earlier envisaged to be commissioned completely in FY 2020-21 has now expected to be commissioned by December, 2021 with an estimated capitalization amount of Rs. 8,011 million subject to availability of land for ROW.

A.1.2 12"diameter x 46Km Loop line from Rehman Gas Field to MVA

Naing:

The subject pipeline was commissioned on January, 2020; whereas left over mechanical and civil job is expected to be completed in FY 2020-21 with an estimated capitalization amount of Rs. 129 million.

A.1.3 8" DIAMETER x 28 KM PIPELINE FROM AYESHA GAS FIELD

The subject pipeline was commissioned on February, 2020, whereas left over mechanical and civil job would be completed in FY 2020-21 with an estimated capitalization amount of Rs. 108 million.

SUI SOUTHERN GAS COMPANY LIMITED**STATUS OF MAJOR PROJECTS FY 2020-21 & FY 2021-22 (ERR)****A.1.4. 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. The said project will enhance 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 by May 2022 with estimated capitalization of Rs 1,818 million.

A.1.5. QUETTA PIPELINE CAPACITY ENHANCEMENT PROJECT:

The natural gas to Quetta region and surrounding areas is being supplied through 12" x 344 km pipeline with loop-lines arrangement of different nominal size from 18" to 24" diameter pipeline.

Supply of gas to Quetta is arranged from Bhit, Sui and other gas fields. The gas demand of Quetta city during summer is

SUI SOUTHERN GAS COMPANY LIMITED**STATUS OF MAJOR PROJECTS FY 2020-21 & FY 2021-22 (ERR)**

approximately 70-90 MMSCFD. However, gas demand increases drastically up to 190-200 MMSCFD during winter season.

In order to remove bottlenecks in gas supply infrastructure, 24" diameter x 34 Km loopline from Shikarpur to Jacobabad was commissioned in December, 2017, whereas leftover civil work and mechanical work is expected to be completed in FY 2020-21 with the estimated capitalization amount of Rs. 91 million.

Rerouting of existing QPL 12" diameter x 9Km (KM56 to KM65) and 12" diameter x 14Km (KM84 to KM96) completed in January, 2018.

New compressor unit 01 No. at Shikarpur has been installed and commissioned in November, 2020, with an estimated capitalization amount of Rs. 1893 million in FY 2020-21.

A.1.6. 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.

Frontend engineering design has been completed, procurement of required material is under process.

The installation job of check metering arrangement is expected to be completed with an estimated amount of Rs 258 million by June, 2021, whereas leftover civil work will be completed in FY 2021-22 with capitalization of amount Rs. 7 million.

A.1.7. 12" DIAMETER x 344 KM QPL REHABILITATION AND INTELLIGENT PIGGING

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

SUI SOUTHERN GAS COMPANY LIMITED**STATUS OF MAJOR PROJECTS FY 2020-21 & FY 2021-22 (ERR)**

The proposed Rehabilitation of 12" diameter x 344 Km QPL involves modification work on 13 number piping set-ups at main valve assemblies, replacement of reduced bore valve with full bore valves, fabrication and modification of main valve assemblies, fabrication and installation of pig launching and receiving assemblies, removal of MPL drip and installation of scrubbers, filters and controllers etc. The intelligent pigging is proposed to be carried out with the objective of establishing reliability/ integrity of the pipeline and enhance its useful life.

Design for rehabilitation job has been finalized, whereas procurement of remaining project material is under process. The construction activities are expected to be started in April, 2021.

Rehabilitation job is expected to be completed in FY 2021-22 with an estimated amount of Rs. 326 million. Whereas, intelligent pigging of Quetta pipeline will be carried out after completion of rehabilitation job in FY 2021-22, with the total estimated capitalization amount of Rs. 53 million.

A.1.8 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.

Out of seventeen (17) numbers of crossings, total 05 numbers have been commissioned, whereas 09 Numbers have been completed except tie-in, remaining 02 Numbers crossing including tie-in job of 09 nos crossings are expected to be completed in FY 2021-22 with an estimated amount of Rs. 159 million.

SUI SOUTHERN GAS COMPANY LIMITED

STATUS OF MAJOR PROJECTS FY 2020-21 & FY 2021-22 (ERR)

The status of submerged crossing projects is as follows:

Sr. No.	Crossing	Chain age	Method of Construction	Status
1	16" dia. KP West (ILBP)	Km 122+500	HDD/T.D.	Hold
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. Sem Nala (QPL)	Km 48+000	T.D.*	Completed except Tie-in
5	18" dia. Patfeeder (QPL)	Km 81+000	HDD**	Completed except Tie-in
6	20" dia. Bakshoo Canal (IRBP)	Km 112+000	HDD	Completed except Tie-in
7	20" dia. Warah Canal (IRBP)	Km 135+000	HDD	Completed except Tie-in
8	18" dia. Warah Canal (IRBP)	Km 135+000	HDD	Completed except Tie-in
9	20" dia. Ghar Canal (IRBP)	Km 160+000	T.D./HDD	Completed except Tie-in
10	20" dia. Badah Canal (IRBP)	Km 190+000	T.D.	Completed except Tie-in
11	20" dia. Damrah Canal (IRBP)	Km 198+000	T.D.	Completed except Tie-in
12	20" dia. Sehar Wah (IRBP)	Km 204+000	T.D.	Completed except Tie-in
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+00	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

A.1.9. New Compressor Unit at Sibi Station:

The increasing gas demands and the peak consumption trends of Quetta city and en-routed areas, make it imperative for SSGC to enhance the capacity of its pipeline. This project is also linked with the SSGC's sequential efforts (QPL capacity enhancement project) to increase the capacity of gas infrastructure in the region. Moreover, due to gas shortfalls experienced in the region during winter season, SSGC is under Balochistan High Court's order to make the required gas volumes available for the city as well as meet the contractual obligations with Habibullah Coastal Power Plant.

SUI SOUTHERN GAS COMPANY LIMITED**STATUS OF MAJOR PROJECTS FY 2020-21 & FY 2021-22 (ERR)**

Installation of 01 New Compressor having 200 MMscfd flow capacity has been opted on the basis of technical and financial analysis, the option for revamping of existing 60 MMcfd capacity compressors has now been dropped.

Consultancy service will be acquired for the preparation of technical specification, technical proposals evaluation, and supervision during installation, commissioning activities.

This proposed project, installation of 01 no. compressor unit at HQ-Sibi is expected to be completed by June 2022 with an estimated cost of Rs. 2269 million.

A.1.10. 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 Equipments 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.

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.

A.1.11. 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 Pakhro.

The Installation of check metering job has been completed in February 2020 with an estimated amount of Rs. 48 million furthermore leftover civil jobs would be completed in FY 2020-21 with an estimated amount of Rs. 18 million.

SUI SOUTHERN GAS COMPANY LIMITED**STATUS OF MAJOR PROJECTS FY 2020-21 & FY 2021-22 (ERR)****A.1.12 METERING FOR RLNG-1 AND ARRANGEMENT FOR TIE-IN (2ND TERMINAL) AT CTS BIN QASIM (CUSTODY TRANSFER STATION) INTEGRATION ARRANGEMENT AT PAKLAND.**

Check Metering skid (Ultrasonic) installation for RLNG-1 at Tie-in (CTS) Bin Qasim, with valves and fittings for off take at CTS and inlet Headers for SSGC RLNG terminal.

Necessary integration arrangement for RLNG-1 at existing Transmission Pipeline network at Pakland with 42" dia x 17 Km.

The required Tie in and Integration arrangement for receiving RLNG from terminal -1 as well as terminal 2 have been completed.

Metering arrangement for reconciliation of RLNG receiving from terminal 1 has been installed and commissioned with an estimated capitalization amount of Rs. 580 million in FY 2019-20.

Furthermore Rs. 825 million has been proposed against installation of check metering arrangement with 2nd Terminal in FY 2021-22.

A.1.13 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. 233 million the proposed job is expected to be completed in FY 2021-22.

A.1.14 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 SNGPL pressure requirement of 1,115 psig and volume 1.2 BCFD of RLNG.

SUI SOUTHERN GAS COMPANY LIMITED
STATUS OF MAJOR PROJECTS FY 2020-21 & FY 2021-22 (ERR)

MAJOR DISTRIBUTION PROJECTS ERR FY 2021-22

B.1 8"Ø x 35 KM SUPPLY MAIN BADIN

This project is required to reinforce existing 6" dia Supply Main Badin, 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 16,000 domestic, 73 commercial & 6 CNG stations. The supply main (from Golarchi to Badin) has also come into the center of road and we cannot put further load and enhance the pressures on it to avoid untoward situation in case of emergency.

Total length of Supply Main from SMS up-to TBS-1 Badin is around 35 Kms, which has been further extended for gasification to new towns / villages and the total length of the SM becomes around 130 Kms. Consequently, supply main capacity has been exhausted. This project will enhance the capacity of Supply Main (SM) and help to handle gas emergencies safely in future along Golarchi-Badin Road.

SUI SOUTHERN GAS COMPANY LIMITED
CAPITALIZATION DETAILS FY 2021-22

TRANSMISSION PROJECTS

S. No.	DESCRIPTION OF SEGMENT	FY 2021-22 ERR	
		KMs	Gross Capitalization (Rs. Million)
1	30" Dia x 125 KM (rev. 116KMs) Pipeline from SMS Sindh University to SMS Pakland	116	8,010.630
2	Upgradation of SMS Thatta		147.943
3	Check Metering Facility at Shahdadpur for Gambat South Field Gas Measurement (RS3)		7.130
4	12" Dia x 344 Km QPL Rehabilitation and Intelligent Pigging		378.853
5	Construction of Sub-merge Crossings		159.351
6	24" Dia x 31 Km from SMS Kathore to SMS Surjani (ACPL Surjani)	31	1,818.247
7	SCADA System		44.750
	Sub-Total		10,566.904
8	01 New Compressor Unit at Sibi		2,268.632
9	Repair of Fuel Control Valve AGV-10 at original equipment manufacture facility-sweden - Dressor Rand Compressor		9.000
10	Actuated Valves, size 18 inch (04 Nos)		30.000
11	Screw Air Compressor (5 Cubic meter per minute at 0.7Mpa, 01 No.)		0.500
12	Overhaul of Sollar T-60 Gas Turbine Engine including FAT & FSR installation charges		365.000
13	Installation/Testing FSR charges of New Procured Solar Gas Turbine Engine plus miscellaneous inspections on all six Solar units		20.000
14	Rotor - DR 990 Turbo Compressor (Capacity 120 MMSCFD)		90.000
15	Instrument Air Compressor, Air flow 320ACFM, full load pressure 150 PSI (01 No.)		2.500
16	Diesel Engine Fire Pump (500 US Gallons per minute) 01 No.		0.600
	Sub-Total Compressors		2,786.232
	RLNG PROJECTS		
	Ph-1		
17	Tie-in and integration arrangement - from tie-in point 2 to Pakland & Bin Qasim		824.996
	Ph-2 and Others		
18	42" dia x 342 Km (Ph-2) - from Pakland to Nara (Leftover in 2019-20 Rs 212 million, in FY 2020-21 Rs 255 million))		233.205
19	30" Dia x 17 KMs from CTS Bin Qasim to MVA Pakland		1,078.597
20	Future Extension of CTS Bin Qasim - RLNG		426.863

Table # D-1.1

SUI SOUTHERN GAS COMPANY LIMITED
CAPITALIZATION DETAILS FY 2021-22

	Sub-Total		2,563.661
21	Additional 06 Compressor units & extension of facility at Nawabshah (Total 30,000 HP) - (leftover) HQ-2 Daur		206.850
22	30 K Overhaul of Solar T-60 Gas Turbine Engine installed at RLNG HQ-2 Compressor Station		300.000
23	Gas Turbine Engine Solar Taurus T-60 (7800 HP) with storage container FAT charges and FSR installation charges		462.000
24	Refurbishment of Dry gas Seal Cartridges for Solar T-60 Gas compressor installed at RLNG HQ-2 Compressor Station - RLNG		9.000
	Sub-Total Compressors		977.850
	Sub-total RLNG	-	3,541.511
	Total - Transmission	147	16,894.647

GAS DISTRIBUTION SYSTEM

S. No.	DESCRIPTION OF SEGMENT	FY 2021-22 ERR	
		KMs	Gross Capitalization (Rs. Million)
1	8"Ø x 35 KM Supply Main Badin	35.0	381.341
2	Normal Expansion	1,210.1	5,146.492
3	New Towns & Villages	278.2	1,044.275
4	Rehabilitation Mains & Services (UFG Reduction Program)	490.0	2,341.003
5	Meters Replacement (UFG Reduction Program)		2,044.801
6	Modems, Installation of EVC, Filter Separators, Etc - UFG Reduction Program		141.424
7	Construction of CMSs, TBSs, and TRSs - UFG Reduction Program		349.820
8	UFG Reduction Program - Segmentation		110.000
9	Smart Metering/GCV/V3 Index		-
Total - GDS		2,013.3	11,559.156
GRAND TOTAL GTPL & GDS		2,160.3	28,453.803

Table # D-1.2

SUI SOUTHERN GAS COMPANY LIMITED
ADDITION IN NETWORK (Kilometers) FY 2021-22

(Length in Kilometers)

S. No.	DESCRIPTION OF SEGMENT	FY 2021-22
A	<u>TRANSMISSION SYSTEM</u>	
1	12" Dia x 46 KMs Pipeline from Rehman Field to Naing MVA	
2	08" Dia x 28 KMs Pipeline from Ayesha Gas Field	
3	30" Dia x 17 KMs from CTS Bin Qasim to MVA Pakland [RLNG]	
4	30" Dia x 125 Km Pipeline from SMS Sindh University to SMS Pakland (1st segment)	116.0
5	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	20" Dia x 1.5 KMs Interlink of Shershah Main & SITE Gas Turbine Main	
2	Reinf. Work at Quetta Mid City Area 16" dia Loop Line	
3	Reinf. Work at Sibi Road via Mian Ghundi Link Road upto Mastung Road	
4	20" Dia x 7 KMs Desalination Plant to Dolmen Mall Clifton	
5	12" Dia x 5 KMs Old City Area Augmentation Main	
6	8"Ø x 35 KM Supply Main Badin	35.0
B	Sub-Total	35.0
B I	New Towns/ Villages	278.2
B II	Normal Expansion	1,210.1
C	Sub Total - Distribution (C = B+BI+BII)	1,523.3
	Total Trans. + Distribution (A+C)	1,670.3

Table # D-2.1

SUI SOUTHERN GAS COMPANY LIMITED
TECHNICAL DATA
TRANSMISSION PROJECTS FY 2021-22

S. No.	DESCRIPTION OF SEGMENT	Diameter (Inch)	Wall Thickness (Inch)	Length (Km)	U/S Pressure (psig)	D/S Pressure (psig)	Pipe Grade API-5L	Proposed Capacity (MMCFD)
1	30" dia x 125 Km SMS Sindh University to SMS Pakland	30	0.562"/.469"	116	664	542	X-70	247
2	24" dia x 31 ACPL to Surjani	24	0.469	31	585	570	X-60	100

Table # D-2.2

SUI SOUTHERN GAS COMPANY LIMITED
TECHNICAL DATA
MAJOR DISTRIBUTION PROJECTS

Table # D-2.2

S. No.	DESCRIPTION OF SEGMENT	Diameter (Inch)	Wall Thickness (Inch)	Length (Km)	U / S Pressure (psig)	D/S Pressure (psig)	Pipe Grade	Proposed Capacity (MMCFD)
1	8"Ø x 35 Km Supply Main Badin (From SMS Badin to TBS1 Badin)	8	0.219	35	100	50	Grade B	4.25

Table # D-3.1

SUI SOUTHERN GAS COMPANY LIMITED

GENERAL DATA

TRANSMISSION PROJECTS FY 2020-21

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 SMS Sindh University to SMS Pakland	8,011	5,577	This pipeline is required to transport additional gas to be received from Mangrio, Mithri, Chabbaro, Gundarwari, Hadaf & Badoel, Benari, Naimat, Gambat South & KPD field. Furthermore the proposed pipeline is required to dedicate RLNG pipeline by removing bottleneck impact in transportation of the volume being swapped to SNGPL in lieu of RLNG at Sawan.	This pipeline would help in increasing Company's sale and reduce energy shortage in the country.	20%	On-going	December, 2021
2	24" dia x 31 Km Kathor Surjani Pipeline	1,818	1,277	This pipeline is required to transport additional gas upto 100 MMCFD to Surjani for further distribution to Hub & SITE Industrial Area.	This pipeline would help in increasing Company's sale and reduce Pressure drop problem in SITE area.	10%	On-going	May, 2022

Table # D-3.1

SUI SOUTHERN GAS COMPANY LIMITED
GENERAL DATA
MAJOR DISTRIBUTION PROJECTS

S. No.	DESCRIPTION OF SEGMENT	PROJECT COST		Need Assessment	Cost Benefit Analysis	% Completion (if applicable)	Implementation Schedule	
		Total Cost	Material				Starting Date	Commissioning Date
1	8"Ø x 35 Km Supply Main Badin (From SMS Badin to TBS1 Badin)	381.3	159.5	Total length of existing Supply Main Badin from SMS up-to TBS-1 Badin is 34 Kms, which has been further extended making total length of the SM around 130 Kms. Consequently, supply main capacity has been exhausted. The existing supply min (from Golarchi to Badin) has come into the center of road and we can not put further load and enhance the pressures on it to avoid untoward situation in case of emergency.	This project will enhance the capacity of Supply Main and help to handle gas emergencies safely in future along Golarchi-Badin Road.		July 2021	April 2022

Table # D-4.1

TRANSMISSION PROJECTS				
COST BREAK-UP				
30" dia x 125 KMs (Rev 116KM) Proposed Pipeline from Sindh University to Pakland				
Rs. Million				
S.No.	DESCRIPTION	Total Project Cost	Total Actual Estimate Upto June-21	FY 2021-22
			Cost	Cost
	<u>Material</u>			
1	Linepipe	4525.19	15.19	4510.00
2	Valves & Fittings	394.26	5.26	389.00
3	Joint Coating Material	64.57	0.57	64.00
4	Welding Electrodes	46.24	0.24	46.00
5	Cathodic Protection	18.00		18.00
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		42.00
10	Regulator and control valve	70.00		70.00
11	Misc. Inventory Expenses	52.32	2.32	50.00
12	Material Direct Supply			50.00
13	Inland Transportation	73.98	24.98	49.00
	Sub-Total	5576.56	48.56	5528.00
14	Land Acquisition & Survey	160.02	0.02	160.00
15	Damages Compensation & Rental	94.54	6.54	88.00
16	Route & Topographic Survey	8.18	8.18	
17	Design Engg. & Project Mgt.	26.04	0.04	26.00
18	Welding Inspection	45.15	0.15	45.00
19	Mill Inspection	3.00		3.00
20	EAR Insurance	20.00		20.00
21	Pipeline Construction	918.93	94.93	824.00
22	Civil works	89.55	4.55	85.00
23	Cold cut and integration	4.00	0.00	4.00
24	Interest on borrowing @8.83%	628.36	29.42	598.94
25	Depreciation of Construction Equipment		92.33	
26	Contingencies @5%	343.95	4.80	339.15
	GRAND TOTAL	8010.61	289.52	7721.09

Table # D-4.2

TRANSMISSION PROJECTS COST BREAK-UP 24" dia X 31 KM Pipeline From ACPL - Surjani				
Rs. Million				
S.No.	DESCRIPTION	Total Project Cost	Total Actual Estimate Upto June-21	FY 2021-22
			Cost	Cost
	<u>Material</u>			
1	Linepipe	980.01	0.01	980.00
2	Valves & Fittings	60.00		60.00
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 Separators	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	1276.71	0.01	1276.70
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	Cold cut and integration	3.00		3.00
23	Depreciation of Construction Equipments	0.00		
24	Interest on borrowing @ 8.83%	141.00	0.19	140.81
25	Contingencies @5%	79.74	0.00	79.74
	GRAND TOTAL	1817.79	2.54	1815.25

Table # D-4.3

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	Mill 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
	Length of Pipeline (Kms)	35
	Per Km Cost	10.895

Table # D-5

SUI SOUTHERN GAS COMPANY LIMITED
GAS DISTRIBUTION SYSTEM - ADDITION

SUMMARY OF ACTIVITIES

Rs. In Million

S/No.	Description	ERR FY 2021-22	FY 2021-22 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	2,341.0						
2	Replacement /Repair of Undersized Meters	2,044.8		-	-	-	Ongoing	Ongoing
3	Segmentation	110.0						
6	Modems, Installation of EVC, Filter Separators,Etc	141.4		-	-	-	Ongoing	Ongoing
7	Construction of CMSSs, TBSs, and TRSS	349.8					Ongoing	Ongoing
	Sub Total: UFG Control Program (A)	4,987.0						
4	Laying of Distribution Mains including services-Existing Areas and DDC	3,733.0		-	-	-	Ongoing	Ongoing
5	Installation of New Connections (meters)	1,413.2		-	-	-	Ongoing	Ongoing
8	New Towns	1,044.3		-	-	-	Ongoing	Ongoing
	Sub Total: Normal (B)	6,190.5						
	Total GDS Other Than Major Projects: (A+B)	11,177.8						
9	8"Ø x 35 KM Supply Main Badin	381.3						
	Sub Total: Major Distribution Projects	381.3		-	-	-	-	-
	Total Gas Distribution System	11,559.2						

Please refer Table: D-3.2

DISTRIBUTION DEVELOPMENT GAINS INCLUDING EXTENSION IN EXISTING AREAS, REINFORCEMENT AND REHABILITATION PROGRAM

Steel Main Diameter (inches)	FY 2019-20 (Petition)				FY 2020-21 (Petition)				FY 2021-22 (Petition)						
	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	w.r.t. 2018-19		Material Cost	Cost per Km	w.r.t. 2019-20		Material Cost	Cost per Km	w.r.t. 2020-21			
													Material Cost %	Cost/K m %	Material Cost %
20															
16	2.5	33.4	13.4	-67%	0%	3.0	31.17	10.4	-7%	-22%		0%			
12	2.0	18.5	9.3	0%	0%	19.0	123.84	6.5	569%	-30%	12.6	178.37	14.2	44%	117%
8	65.4	326.5	5.0	34%	47%	32.0	145.46	4.5	-55%	-9%	56.1	365.65	6.5	151%	43%
6	90.2	295.7	3.3	27%	8%	54.0	159.59	3.0	-46%	-10%	59.3	269.55	4.5	69%	54%
4	129.4	314.0	2.4	56%	49%	60.0	107.40	1.8	-66%	-26%	91.2	387.82	4.3	261%	138%
2	207.2	260.8	1.3	49%	49%						112.5	201.38	1.8		
1	7.2	2.9	0.4	-72%	-11%						1.0	1.05	1.1		
3/4	467.2	269.1	0.6								-	-	-		
Total	971.0	1,531.1	1.6			168.0	567.46	1.6			332.7	1,403.8	4.2		
Poly Main Diameter (mm)	FY 2019-20 (Petition)				FY 2020-21 (Petition)				FY 2021-22 (Petition)						
	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	w.r.t. 2018-19		Material Cost	Cost per Km	w.r.t. 2019-20		Material Cost	Cost per Km	w.r.t. 2020-21			
													Material Cost %	Cost/K m %	Material Cost %
180	75.9	204.0	2.7	42%	3%	53.0	177.8	3.4	-13%	25%	85.3	412.6	4.8	102%	80%
125	148.6	177.5	1.2	53%	6%	82.0	194.2	2.4	9%	98%	151.6	330.6	2.2	86%	83%
63	400.9	133.7	0.3	56%	3%	321.0	186.8	0.6	40%	75%	440.0	404.4	0.9	203%	176%
40	113.0	8.2	0.1	-23%	-47%						1.0	0.7	0.7	0%	0%
20	255.1	145.6	0.6	-19%	-30%										0%
Sub Total	993.4	667.9	0.7			456.0	558.8	1.2			677.9	1,148.3	1.7		
New Towns	231.2	758.0	3.3			302.2	1,127.0	3.7			278.2	1,044.3	3.8		
Total	2,195.6	2,947.0	1.3			956.2	2,253.2	2.4			1,288.8	3,596.3	2.8		
Other Costs															
Direct Dept. Cost (DDC)		1,780.6					1,264.8					1,456.3			
Road Restoration Charges (RRC)							904.3					1,268.7			
THSTRS/PRS/CPS		194.5					154.9					349.8			
Meter Stations		2,645.8					5,000.7					3,458.0			
Service Cost (Additions & Replacements)						782.0	700.1				689.5	797.2			
Segmentation		-					108.5					110.0			
Modems, Installation of EVC, Filter Separators,Etc		169.2					199.0					141.4			
Smart Metering/GCV/V3 Index							1,500.0					-			
Total Other Cost		5,551.1					9,832.3					7,581.5			
Grand Total	2,195.6	8,498.1	3.9		1,708.2	12,085.5	7.1				1,978.3	11,177.8	5.7		

Table # D-5.2

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

Connection Category	Physical Target (Regionwise)						Physical Target (Regionwise)					
	FY 2020-21 Petition						FY 2021-22 Petition					
	Karachi		Sindh		Balochistan		Karachi		Sindh		Balochistan	
	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees
Industrial	142	1,144,161	40	1,258,039	2	995,697	148	1,111,231	44	1,143,672		
Commerccail	917	56,839	128	57,165	119	57,157	400	56,720	100	56,720		
Domestic-Normal	92,770	4,493	35,170	5,371	15,083	5,371	75,619	4,680	45,665	5,595	12,000	5,595
Total	93,829		35,338		15,204		76,167		45,809		12,000	

New Connections - Cost Details

Region	Region	FY 2020-21 Petition			Region	FY 2021-22 Petition		
		Units	Rs. Million			Units	Rs. Million	
Karachi	Karachi	93,829	631.4		Karachi	76,167	541.1	
Sindh	Sindh	35,338	246.5		Sindh	45,809	311.5	
Balochistan	Balochistan	15,204	89.8		Balochistan	12,000	67.1	
	Total	144,371	967.7		Total	133,976	919.7	
	DDC		366.9		DDC		493.6	
	Total		1,334.7		Total		1,413.2	

Table # D-5.3

SUI SOUTHERN GAS COMPANY LIMITED

DISTRIBUTION DEVELOPMENT

REPLACEMENT OF INDUSTRIAL, COMMERCIAL AND DOMESTIC METERS

Connection Category	FY 2020-21 ERR						FY 2021-22 ERR					
	Karachi			Sindh			Balochistan			Karachi		
	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees
Industrial	417	1,790,694	86	1,917,815	13	931,761	321	1,353,026	66	1,715,889	12	1,055,541
Commercial	805	87,775	207	87,775	138	87,775	910	89,994	234	89,994	156	89,994
Domestic	360,000	3,111	285,100	4,164	80,000	4,164	235,000	3,457	75,000	4,627	45,000	4,627
Total	361,222		285,393		80,151		236,231		75,300		45,168	

Meter Repair & Replacement Cost Details

Region	Region	FY 2020-21 Petition			FY 2021-22 Petition		
		Units	Rs. Million		Units	Rs. Million	
Karachi	Karachi	361,222	1,938	Karachi	236,231	1,329	
Sindh	Sindh	285,393	1,370	Sindh	75,300	481	
Balochistan	Balochistan	80,151	357	Balochistan	45,168	235	
Total		726,766	3,666	Total	356,699	2,045	
Total Cost Including DDC		3,666		Total Cost Including DDC		2,044.8	

Table: D-5.4

Rs. In Million

Description	FY 2020-21 Petition									FY 2021-22 Petition								
	Karachi			Sindh			Balochistan			Karachi			Sindh			Balochistan		
	Units	Per Unit Cost	Total Cost	Units	Per Unit Cost	Total Cost	Units	Per Unit Cost	Total Cost	Units	Per Unit Cost	Total Cost	Units	Per Unit Cost	Total Cost	Units	Per Unit Cost	Total Cost
<u>New Addition</u>																		
TB Stations	15	2.5	37.5	5	2.5	12.5	8	2.5	20.0	15	2.5	37.5	7	2.5	17.5	5	2.5	12.5
TEG/TRS Station	5	0.6	3.0	1	0.6	0.6	5	0.6	3.0	-	-	-	-	-	-	3	2.0	6.0
CP Stations										15	2.9	43.1	29	2.9	83.2	3	2.9	8.6
PR Stations	5	2.9	14.4	10	2.9	28.7	3	2.9	8.6	9	0.6	5.4	6	0.6	3.6	60	0.6	36.0
Total New Addition	25	-	55	16	-	42	16	-	32	39	-	86	42	-	104	71	-	63
<u>Modification</u>																		
TB Stations	10	1.3	13.3	8	1.3	10.6	2	1.3	2.7	18	1.3	23.9	8	1.3	10.6	5	1.3	6.7
CP Stations										20	1.4	27.6	15	1.4	20.7	5	1.4	6.9
Total Modification	10	-	13.3	8	-	10.6	2	-	2.7	38	-	51.5	23	-	31.3	10	-	13.6
Grand Total	35	-	68.2	24	-	52.4	18	-	34.3	77	-	137.5	65	-	135.7	81	-	76.7
	Total cost for FY 2020-21									Total cost for FY 2021-22								
	154.9									349.8								

ERR PETITION 2021-22

Sr. No.	Name of Town / Village	No. of Villages	Total Main (Kms)	No. of Consumers	Cost Rs. In Million				Cost Rs. In Million				
					Expected to be Capitalized				Expected to be Capitalized				
					FY 2020-21 Petition				FY 2021-22 Petition				
					Over & Above to be Adj against Grant	Own	Total	Kms	Over & Above to be Adj against Grant	Own	Total	Kms	
ERR 2020-21:													
1	Chak 25 Sameja, Chak 26 Haji Mushaque, Juman Khoso, Haji Abdullah Rajput, Saleh Mohammad Samu, Ameer Bux Samu, H Ismail Samu & H.Soomar Samu	8	29.55	598	56.68	54.80	111.48	29.55					
2	Achar Menon, Muhamamad Hashim Samejo, Faqeer Ghulam Muhammad Rind, Abdul Sattar Cheepa & Ahmed Memon	5	11.07	160	32.17	18.27	50.44	11.07					
3	Gul Muhammad Halepoto, Nasser Chandio & Murad Chulgari	3	9.54	213	17.86	13.23	31.08	9.54					
4	Ahmed Halepoto & Ali Halepoto	2	5.60	24	17.03	6.92	23.95	5.60					
5	Bashir Halepoto & Feroz Laghari	2	11.22	262	14.27	22.31	36.58	11.22					
6	Mehmood Laghari	1	3.40	113	0.28	7.53	7.81	3.40					
7	Otto Sharif	1	4.80	30	14.76	6.89	21.65	4.80					
8	Haji Imam Bux Korai	1	2.80	6	8.84	3.13	11.97	2.80					
9	Khalique Dino Sahito, Leemon Almani & Mir Muhammad Nizamani	3	13.16	373	14.06	29.94	43.99	13.16					
10	Siddique Mazari	1	3.02	79	3.27	6.31	9.57	3.02					
11	Ali Muhammad Sahito, Talib Sahito & Kaloo Shito	3	7.30	146	10.86	12.92	23.78	7.30					
12	Peerano Samo, Ahmed Samo & Qasim Samo	3	6.60	39	17.82	7.86	25.68	6.60					
13	Chak. 5 Altaf Arain, Chak. 6 Iqbal Gujar, A.Haque, Chak. 20 Bashir Ahmed, Chak.21 Balach Chang, Chak.23 Lal Khan, Chak. 22, Bashir Rajput & Chak 30	9	27.00	114	87.58	28.55	116.13	27.00					

Sr. No.	Name of Town / Village	No. of Villages	Total Main (Kms)	No. of Consumers	Cost Rs. In Million				Cost Rs. In Million		
					Expected to be Capitalized FY 2020-21 Petition				Expected to be Capitalized FY 2021-22 Petition		
					Over & Above to be Add against Grant	Own	Total	Kms	Over & Above to be Add against Grant	Own	Total
14	Gartial Village/Kot Nawab Sardar Khan Chandio Rest House, Nawab Sardar Khan Chandio, Chato Khan Chandio, A. Rahman Chandio & Ali Dost Chandio	5	13.30	69	41.14	10.43	51.57	13.30			
15	Morio Chandio, Mahram Chandio, Sadoro Chandio & Noor Mohammed Chandio	4	5.30	15	13.94	4.52	18.46	5.30			
16	Gaji Bux Chandio, Khadim Hussain Chandio & Shaman Chandio	3	6.20	29	18.74	7.62	26.36	6.20			
17	Mir Khan Gadhi, Allah Bachayo Panhwar & Khameso Mallah	3	9.00	97	21.23	13.04	34.27	9.00			
18	Dodo Panhwar, Dost Muhammad Panhwar & Dinar Panhwar	3	4.10	63	8.19	6.38	14.56	4.10			
19	Jiando Gadahi & Bahram Gadahi	2	6.90	82	17.00	10.96	27.96	6.90			
20	Shaman Panhwar & Chakar Dhakhan	2	10.50	130	24.21	16.62	40.83	10.50			
21	Ali Khan Bahooto	1	3.30	6	10.64	3.75	14.39	3.30			
22	Khan Muhammad Gadhi	1	1.70	12	3.18	1.51	4.69	1.70			
23	Phull Faqir Panhwar	1	1.70	24	2.53	2.16	4.69	1.70			
24	Ayoub Malah	1	4.80	36	12.85	6.53	19.38	4.80			
25	Allah Bachayo Panhwar	1	3.70	67	7.00	6.77	13.77	3.70			
26	Pir Mashaikh	1	3.60	55	7.49	6.08	13.57	3.60			

Sr. No.	Name of Town / Village	No. of Villages	Total Area (Kms)	No. of Constituents	Cost Rs. In Million				Cost Rs. In Million			
					Expected to be Capitalized FY 2020-21 Petition				Expected to be Capitalized FY 2021-22 Petition			
					Over & Above to be Adj. against Grant	Own	Total	Kms	Over & Above to be Adj. against Grant	Own	Total	Kms
27	Ghulam Hussain Gadhi	1	2.80	30	7.54	4.43	11.97	2.80				
28	Ghulam Muhammad Jamal	1	1.20	12	2.13	1.23	3.36	1.20				
29	Ali Muhammad Qambrani	1	0.95	3	2.17	0.63	2.80	0.95				
30	Khuda Bux Jatoi	1	1.80	12	4.91	2.23	7.13	1.80				
31	Moothri	1	2.40	18	3.94	2.08	6.02	2.40				
32	Suhrab Khan Jamal	1	1.40	2	3.16	0.83	3.99	1.40				
33	Phulji	1	4.60	48	11.48	6.93	18.41	4.60				
34	Ghufran Khan Panhwar	1	1.80	36	1.71	2.71	4.42	1.80				
35	Usman Panhwar	1	0.91	3	2.09	0.61	2.69	0.91				
36	Saifal Khan Panhwar	1	1.02	9	1.92	0.96	2.88	1.02				
37	Dilawal Khan Panhwar	1	1.50	15	2.60	1.56	4.15	1.50				
38	Jano Khan Gadhi	1	1.23	30	1.22	2.22	3.44	1.23				
39	Khan Mohammed Gadhi	1	2.05	24	5.16	3.18	8.34	2.05				

ERR PETITION 2021-22

Sr. No.	Name of Town / Village	No. of Villages	Total Mains (Kms)	No. of Consumers	Cost Rs. In Millions				Cost Rs. In Millions			
					Expected to be Capitalized FY 2020-21 Petition				Expected to be Capitalized FY 2021-22 Petition			
					Over & Above to be Adj against Grant	Own	Total	Kms	Over & Above to be Adj against Grant	Own	Total	Kms
40	Abdullah Panthwar	1	0.89	12	1.49	1.05	2.54	0.89				
41	Dinar Panthwar	1	0.68	5	1.50	0.58	2.08	0.68				
42	Dodo Khan Panthwar	1	0.82	30	0.36	1.98	2.34	0.82				
43	Dost Mohammed Panthwar	1	0.87	24	0.80	1.69	2.48	0.87				
44	Mevo Khan Lund	1	0.82	18	1.01	1.33	2.35	0.82				
45	Andal Khan Panthwar	1	1.15	18	1.69	1.52	3.21	1.15				
46	Haji Muhammad Bux Laghari & Khar Muhammad Laghari	2	6.10	17	19.59	7.31	26.91	6.10				
47	Wali Muhammad Laghari & Gazi Dari Ghulam Hyder Laghari	2	9.58	187	15.07	17.39	32.46	9.58				
48	Karim Bux Laghari, Gul Muhammad Laghari, Juma Khan Laghari, Munshi Muhammad Hussain Laghari, Subzal Village, Muhammad Ismail Mahar & Bhano Malik	7	11.24	178	21.48	17.77	39.25	11.24				
49	Chutta Khan Laghari	1	5.10	49	13.23	7.60	20.83	5.10				
50	Sanjar Wasoo, Shahmore Wasoo, Salim Shah Bukhari, Waloo Sanghar, Rajib Wasoo, Muhammad Bux Wasoo & Pahal Wasoo	7	9.70	23	30.95	3.20	34.14	9.70				
51	Hafiz Sultan Ahmed Wasoo, Gul Bahar Khan Sanghar, Pirbhu Marwaree, Muhammad Murad Sanghar, Dil Murad Sanghar Sanghar & Sabal Khan Aribaree	6	9.40	57	30.57	6.00	36.57	9.40				
52	Haji Mithal Agahee & Abdullah Lakhani	2	6.84	83	21.23	5.73	26.96	6.84				

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Sr. No.	Name of Town / Village	No. of Villages	Total Meas. (Kms)	No. of Consignees	Cost Rs. In Million				Cost Rs. In Million			
					Expected to be Capitalized FY 2020-21 Petition				Expected to be Capitalized FY 2021-22 Petition			
					Over & Above to be Adj. against Grant	Own	Total	Kms	Over & Above to be Adj. against Grant	Own	Total	Kms
53	Jumo Sanghar	1	1.50	9	2.92	1.23	4.15	1.50				
54	Atta Muhammad Sanghar	1	1.00	24	1.07	1.76	2.83	1.00				
55	Umaid Ali Sanghar	1	2.00	30	2.46	2.50	4.96	2.00				
56	Meo Sanghar	1	1.70	18	2.85	1.83	4.69	1.70				
ERR 2021-22:												
1	NOOR MUHAMMAD JAT, ABDUL NABI BROHI, SHER ALI SHAH, AHMED KHAN KHOSO/ABDUL NABI KHOSO, MUHAMMAD KHAN KHOSO, GHULAM NABI JATOL, CHAK NO.17, MISRANI, SONU KHOSO & ALLAH WARAYO KHOSO	10	23.93	294					65.55	23.45	89.00	23.93
2	CHANDOO KOLHI & CHAK NO.58	2	12.32	237					23.65	17.31	40.96	12.32
3	HASSAN CHANG, FERAZABAD, ABDUL REHMAN/CHANDRIO MALLAH & CHAK NO.1	4	14.45	248					29.61	17.60	47.21	14.45
4	CHAK. 5 ALTAJ ARAIN, CHAK. 6 IQBAL GUJAR, A.HAQUE, CHAK. 20 BASHIR AHMED, CHAK.21 BALACH CHANG, CHAK.23 LAL KHAN, CHAK. 22, BASHIR RAJPUT & CHAK 30	9	27.00	114					122.38	3.38	125.76	27.00
5	SWAN SHAR, KHAMISO KHAN LEHARI & TALIBN LEHARI	3	4.45	42					14.47	3.21	17.68	4.45
6	GUL MUHAMMAD HALEPOTO, NASSER CHANDIO & MURAD CHULGARI	3	9.54	213					26.24	5.31	31.55	9.54
7	AHMED HALEPOTO & ALI HALEPOTO	2	5.60	24					23.81	2.11	25.92	5.60
8	BASHIR HALEPOTO & FERAZ LAGHARI	2	11.22	262					21.60	15.58	37.18	11.22
9	MEHMOOD LAGHARI	1	3.40	113					1.16	5.71	6.87	3.40
10	OTTO SHARIF	1	4.80	30					20.70	2.99	23.69	4.80
11	HAJI IMAM BUX KORAI	1	2.80	6					12.31	0.64	12.96	2.80

Sr. No.	Name of Town / Village	No. of Villages	Total Majors (Kms)	No. of Consumers	Cost Rs. In Millions				Cost Rs. In Millions			
					Expected to be Capitalized FY 2020-21 Petition				Expected to be Capitalized FY 2021-22 Petition			
					Over & Above to be Adj against Grant	Own	Total	Kms	Over & Above to be Adj against Grant	Own	Total	Kms
12	KHALIQUE DINO SAHITO, LEEMON ALMANI & MIR MUHAMMAD NIZAMANI	3	13.16	373					22.06	22.95	45.01	13.16
13	SIDDIQUE MAZARI	1	3.02	79					5.07	4.57	9.64	3.02
14	ALI MUHAMMAD SAHITO, TALIB SAHITO & KALOO SHITO	3	7.30	146					16.07	8.04	24.11	7.30
15	MIR KHAN GADHI, ALLAH BACHAYO PANHWAR & KHAMESO MALLAH	3	9.00	97					31.81	4.38	36.19	9.00
16	DODO PANHWAR, DOST MUHAMMAD PANHWAR & DINAR PANHWAR	3	4.10	63					12.53	2.43	14.96	4.10
17	JJANDO GADDAHI & BAHAM GADDAHI	2	6.90	82					25.51	4.43	29.94	6.90
18	SHAMAN PANHWAR & CHAKAR DHAKHAN	2	10.50	130					36.48	6.88	43.36	10.50
19	ALI KHAN BAHOOTO	1	3.30	6					15.51	0.13	15.64	3.30
20	KHAN MUHAMMAD GADHI	1	1.70	12					4.73	0.00	4.26	1.70
21	PHULL FAQIR PANHWAR	1	1.70	24					3.91	0.34	4.26	1.70
22	AYOOB MALAH	1	4.80	36					19.01	1.73	20.74	4.80
23	ALLAH BACHAYO PANHWAR	1	3.70	67					10.85	3.62	14.47	3.70
24	PIR MASHAIKH	1	3.60	55					11.43	2.87	14.30	3.60
25	GHULAM HUSSAIN GADHI	1	2.80	30					11.26	1.70	12.96	2.80
26	GHULAM MUHAMMAD JAMAL	1	1.20	12					3.13	0.00	3.13	1.20
27	ALI MUHAMMAD QAMBRANI	1	0.95	3					2.66	0.00	2.66	0.95
28	KHUDA BUX JATOI	1	1.80	12					7.24	0.35	7.59	1.80
29	MOOTHRI	1	2.40	18					5.37	0.00	5.37	2.40
30	SUHRAB KHAN JAMAL	1	1.40	2					3.67	0.00	3.67	1.40
31	PHULJI	1	4.60	48					17.15	2.52	19.67	4.60

ERR PETITION 2021-22

Sr. No.	Name of Town / Village	No. of Villages	Total Area (Kms)	No. of Consumers	Cost Rs. In Million			
					Expected to be Capitalized			
					FY 2021-22 Petition			
					Over & Above to be against Grant	Own	Total	Kms
32	GHUHRAM KHAN PANHWAR	1	1.80	36				
33	USMAN PANHWAR	1	0.91	3				
34	SAIFAL KHAN PANHWAR	1	1.02	9				
35	DILAWAL KHAN PANHWAR	1	1.50	15				
36	JANOO KHAN GADHI	1	1.23	30				
37	KHAN MOHAMMED GADHI	1	2.05	24				
					2.85	1.16	4.02	1.80
					2.57	0.00	2.57	0.91
					2.72	0.00	2.72	1.02
					3.81	0.00	3.81	1.50
					2.08	1.12	3.20	1.23
					7.74	1.20	8.93	2.05

Sr. No.	Name of Town / Village	No. of Villages	Total Main (Kms)	No. of Consumed	Cost Rs. In Million				Cost Rs. In Million			
					Expected to be Capitalized				Expected to be Capitalized			
					Over & Above to be Adj against Grant	Own	Total	Kms	Over & Above to be Adj against Grant	Own	Total	Kms
38	ABDULLAH PANHWAR	1	0.89	12					2.28	0.15	2.43	0.89
39	DINAR PANHWAR	1	0.68	5					2.05	0.00	2.05	0.68
40	DODO KHAN PANHWAR	1	0.82	30					0.82	1.43	2.26	0.82
41	DOST MOHAMMED PANHWAR	1	0.87	24					1.40	0.98	2.38	0.87
42	MEVO KHAN LUND	1	0.82	18					1.65	0.61	2.27	0.82
43	ANDAL KHAN PANHWAR	1	1.15	18					2.64	0.36	3.00	1.15
44	RAHUJA, ABDUL KHALIQUE, URUS BURIRO & UMER BURIRO	4	16.80	42					76.33	0.00	76.33	16.80
45	SANJAR WASOO, SHAHMORE WASOO, SALIM SHAH BUKHARI, WALOO SANGHAR, RAJIB WASOO, MUHAMMAD BUX WASOO & PUHAL WASOO	7	9.70	23					34.72	0.00	34.72	9.70
46	HAFIZ SULTAN AHMED WASOO, GUL BAHAR KHAN SANGHAR, PIRBHU MARWARIE, MUHAMMAD MURAD SANGHAR, DIL MURAD SANGHAR SANGHAR & SABAL KHAN ARIBANEE	6	9.40	57					38.63	0.00	38.63	9.40
47	HAJI MITHAL AGAHEE & ABDULLAH LAKHAN	2	6.84	83					28.71	0.00	28.71	6.84
48	JUMO SANGHAR	1	1.50	9					3.81	0.00	3.81	1.50
49	ATTA MUHAMMAD SANGHAR	1	1.00	24					1.79	0.88	2.68	1.00
50	UMAD ALI SANGHAR	1	2.00	30					3.87	0.60	4.47	2.00
51	MEO SANGHAR	1	1.70	18					4.26	0.00	4.26	1.70
52	WAHID BUX ABRO	1	0.414	24					0.00	1.63	1.63	0.41

ERR PETITION 2021-22

Sr. No.	Name of Town / Village	No. of Villages	Total Meters (Kms)	No. of Consignees	Cost Rs. In Millions				Cost Rs. In Millions			
					Expected to be Capitalized				Expected to be Capitalized			
					FY 2020-21 Petition				FY 2021-22 Petition			
					Over & Above to be Adj against Grant	Own	Total	Kms	Over & Above to be Adj against Grant	Own	Total	Kms
53	DHINGHANO KHAN JALBANI	1	0.22	15					0.00	1.31	1.31	0.22
54	GUL MUHAMMAD SOOMRO	1	1.92	76					0.00	4.10	4.10	1.92
55	MUHAMMAD BACHAL MAITLO / ZABIULLAH MAITLO	1	1.6	64					0.00	3.56	3.56	1.60
56	THARAL KHAN JAGIRANI	1	1.6	64					0.00	3.56	3.56	1.60
57	PER JAN MUHAMMAD	1	1.756	82					0.00	4.29	4.29	1.76
58	HAJI MUHAMMAD CHUTTAL BHATTI	1	0.6	44					0.00	1.90	1.90	0.60
	TOTAL	120	302.20	3,866	701.86	425.10	1,126.96	302.20	851.695	193.054	1,044.275	278.219

11/

Details of Plant & Machinery

For F.Y. 2021 - 22

Table# D-6.1

S/N	Description	Projected Capitalisation (Rs in million)	Addition			Replacement	Total	Utility	Unit Cost Comparison Data		Need Assessment/ Cost Benefits
			Qty	Ref. Year	FY 2021-22						
									Rs in million		
1	Fork Lifter 3 Ton	5.000	1	-	1	HQ-3	NA	5.000	Fork lifter required for loading & unloading of heavy machinery / equipment		
2	Complete solar CP system	7.000	2	-	2	CP (T)	NA	3.500	Additional are req'd for MP-298 on ILBP, KMP-418 on IREP to meet high current requirements in these areas.		
3	Solar Module 150 Watt	1.500	60	-	60	CP (T)	NA	0.025	Additional are req'd for upgrading of existing solar system installed at various locations to meet high current requirement		
4	Water Pump - Electric Motor Driven Centrifugal 20 HP, 2800 RPM Suction: 4"	1.600	-	2	2	Trans Admin	NA	0.800	Replacement of existing pumps are required at Gulshan Pumping station supplying water to KT. Existing pumps involves high cost in its repair & maintenance.		
5	Electric Die Machine - G.I. pipe threading Machine from 1/2" dia to 4" dia	0.800	-	1	1	Trans Civil Main	NA	0.800	Existing Die Machine is non-functional which is more than 10 years old and beyond repairing, it is mandatory requirement for plumbing work in order to thread g.i. pipes.		
6	Diesel Engine Driven DC Generator (Welding PLant) - Type: DC Generating Set Rating: Electric Arc Welding machine, 400-450 Amps at 36 Volts & 80% Duty Cycle.Current Range: 40-450 Amps with reduced power loss under loaded condition.Controls: Dual Continuously Ampere & variable Voltage Controls.Diesel Engine: Cylinder 3-4, water cooled.Power 35-45 HP, Speed 1500~1850 RPM with Safety Shut down devices.	4.500	-	1	1	Trans-ERC	NA	4.500	The existing welding plant is 25 years old and having problems of current regulation which cause defects in welding. The repair is beyond economically viable. Therefore new Plant is requested for ERC HQ-2		
7	Leak Clamp with Pilot pinFor pipe size: 42" dia	2.660	4	-	4	Trans-ERC	NA	0.665	Required for RLNG pipeline to rectify minor leakages in Emergency.		
8	Leak Clamp with Pilot pinFor pipe size: 24" dia	1.520	4	-	4	Trans-ERC	NA	0.380	Required for minor leakages/ pinholes mostly on Kunnar Pasak Pipeline, caused by miscreants acts of installing clamps on SSGC pipelines instead of , in ignorance, parallel passing PARCO oil pipelines for stealing oil.		

Sui Southern Gas Co. Ltd.
Details of Plant & Machinery
For F.Y. 2021 - 22

Table# D-6.1

S/N	Description	Projected Capitalisation (Rs in million)	Addition	Replacement	Total	Utility	Unit Cost Comparison Data		Need Assessment/ Cost Benefits
							Ref. Year	FY 2021-22	
Rs in million									
9	Low Clearance Cold Cutting Machine for 10" to 14" dia Pipe Range	0.400	1	-	1	Trans-ERC	NA	0.400	Cold cutting is to be carried out during Transmission Gas pipe line maintenance and emergency activities. At present hydraulically operated cold cutting machines are available in ERC Shikarpur and Quetta. Since the work is to be carried out in remote areas if any situation of failure of hydraulic engine we remain handicap. In such situation manually operated cold cutting machines are requisite.
10	Low Clearance Cold Cutting Machine for 16" to 18" dia Pipe Range	0.480	1	-	1	Trans-ERC	NA	0.480	Cold cutting is to be carriedout during Transmission Gas pipe line maintenance and emergency activities. At present hydraulically operated cold cutting machines are available in ERC Shikarpur and Quetta. Since the work is to be carried out in remote areas if any situation of failure of hydraulic engine we remain handicap. In such situation manually operated cold cutting machines are requisite.
11	Low Clearance Cold Cutting Machine for 20" to 24" dia Pipe Range	0.550	1	-	1	Trans-ERC	NA	0.550	Cold cutting is to be carriedout during Transmission Gas pipe line maintenance and emergency activities. At present hydraulically operated cold cutting machines are available in ERC Shikarpur and Quetta. Since the work is to be carried out in remote areas if any situation of failure of hydraulic engine we remain handicap. In such situation manually operated cold cutting machines are requisite.
12	Fork Lifter 5 Ton	10.000	1	-	1	CMG - RLNG	NA	10.000	Required for shifting of material from yard area to workshop, store & maintenance job at HQ-2
13	Fork Lifter 5 Ton	10.000	1	-	1	CMG - Indignous Gas	NA	10.000	Required for shifting of material from yard area to workshop, store & maintenance job at HQ-3 comp station
14	Gas Engine Generator - 20 KVA	9.000	-	2	2	Services	NA	4.500	The existing generators at RS-Golarchi, RS-5 & RS-Damboli installed 18 years back have already completed its useful life and are now frequently developing faults and are beyond economical repair. In view of law & order conditions and for smooth & uninterrupted SCADA & Telecom system, the old generators needs urgent replacement.
15	Generator - 20 KVA with Sound proof Canopy	15.000	3	-	3	Services	NA	5.000	CTS Sawan, CTS Ban Qasim and SMS Pakland are located at remote areas and due to law & order situations and for proper cooling required for the installed measurement equipment, these generators are urgently required.

Sui Southern Gas Co. Ltd.
Details of Plant & Machinery
For F.Y. 2021 - 22

Table# D-6.1

S/N	Description	Projected Capitalisation (Rs in million)	Addition	Replacement	Total	Utility	Unit Cost Comparison Data		Need Assessment/ Cost Benefits
							Ref. Year	FY 2021-22	
Rs in million									
16	Major Overhauling of Gas Engine Generators Caterpillar make-360 KW	6.500	1	-	1	Services	NA	6.500	This Generator is kept as standby arrangement for any breakdown of main generators at HO. Major overhauling is due as it have completed running Hours recommended by manufacturer. This will increase life of Generator and shall be utilized at other location after Major overhauling.
17	Top Overhauling of Gas Engine Generators.- 200KVA	13.500	3	-	3	Services	NA	4.500	These Generators are Power source of Electricity at HQ-Shikarpur, HQ Quetta & GM (East) Office Korangi - Karachi. These generators have completed more than 13000 running Hours. Top overhauling as per recommendation of manufacturer is due which will increase life of Generators.
18	Water Heater System for Head office building	1.500	-	1	1	Services	NA	1.500	The existing Water Heating system has completed 20 years useful life. The model being obsolete is now beyond repairing and needs urgent replacement.
19	HVAC System-37KW VFD for H.O	1.350	-	3	3	Services	NA	0.450	Existing VFDs are beyond repair due to obsolete model as such needs urgent replacement.
20	Gas Flow Computer 4 Stream	14.000	-	2	2	Measurement Metering Transmission	NA	7.000	25 Nos. 4 Stream Gas Flow Computers of Emerson Process - USA, Model - FB-407 are in operation on entire Transmission Network. The vender has informed that this model is now obsolete and they will not be able to provide spares of this model in future. These flow computers were procured during last 15 years time and frequent defects develop at older installations. Therefore, we have planned to replace 02 Flow computers in FY.2020-21 to increase the reliability.
21	Gas Flow Computer 1 Stream	2.000	-	1	1	Measurement Metering Transmission	NA	2.000	28 Nos. 1- Stream Gas Flow Computers of different Make and models are in operation on Transmission Network. These flow computers were procured during last 11 years time and frequent defects develop at older installations. Therefore, we have planned to replace 03 Flow computers in FY.2020-21 to increase the reliability.
22	Actuator for 16" dia. Ball Valve.	8.000	4	-	4	Measurement Metering Transmission	NA	2.000	Required for 03 Nos. Metering skids for RLNG installed at MVA Pakland to control supply of RLNG, from Gas Control KT to SNGPL and Karachi offtake as per supply and demand and accurately measure the varying gas lows & thus saving time & resources.

Sui Southern Gas Co. Ltd.
Details of Plant & Machinery
For F.Y. 2021 - 22

Table# D-6.1

S/N	Description	Projected Capitalisation (Rs in million)	Addition		Replacement	Total	Utility	Unit Cost Comparison Data		Need Assessment/ Cost Benefits
								Ref. Year	FY 2021-22	
Rs in million										
23	On-line Gas Chromatograph	36.000	-		3	3	GQCL	NA	12.000	On-line Gas Chromatograph units to be replaced were procured in the year 2004 and are now obsolete & their spares are no more available from the OEM. Therefore, replacement of these units is essentially required at SMSs. & POD Check Meters.
24	Bench type Gas Chromatograph.	13.000	1		-	1	GQCL	NA	13.000	Bench type gas chromatographs are required one for SNG one for Natural Gas to be placed at Lab KT for analysis of samples of SNG / NG received from large number of LPG-Air Mix Plants being installed & Natural gas from Distribution & Transmission network for Energy based billing to respective customers.
25	Suction Pump	0.025	1		-	1	Billing	NA	0.025	For use of Zonal office.
26	Lath Machine	0.600	1		-	1	MRS	NA	0.600	It is required for machining work in defective meters
27	Generator 50KVA	3.500	1		.	1	MRS	NA	3.500	In order to continuous power failure in Regional Office Hyderabad, progress with respect UFG Special project is badly being affected. For enhancement of progress, uninterrupted power supply is essentially required. In view of the facts, the same is being proposed.
28	Generator 5KVA	1.200	2		-	2	CP (D)	NA	0.600	Required for supplying electricity during the recording of PSP readings & attending the ground bed faults of CP source points at the time of monthly/ weekly visits of locations where power source is not available due to load shedding / any other reason . Note: Presently readings are not recorded of CP stations where power source is break down .
29	MU-300 Multiple Drilling & Tapping Machine	8.000	-		1	1	MMP	NA	8.000	To replace the existing MU-300 drilling and tapping machine which is more than 25 years old and has already completed useful life. The performance of the machine is not in accordance with the Meter Plant requirement.
30	Threading Machine 7/8	2.500	-		1	1	MMP	NA	2.500	To replace the existing 7/8 tapping machine which is more than 10 years old. The performance of the machine is not meeting our production requirement

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Sui Southern Gas Co. Ltd.
Details of Plant & Machinery
For F.Y. 2021 - 22

Table# D-6.1

S/N	Description	Projected Capitalisation (Rs in million)	Addition		Replacement	Total	Utility	Unit Cost Comparison Data		Need Assessment/ Cost Benefits
			Qty	Ref. Year				FY 2021-22		
Rs in million										
31	Screw feeding and tightening machine for assembling side covers with body of G-1.6 Gas Meter. The required machine will be automatic type with the capability of three station simultaneous assembly of three meters.	4,000	1			1	MMP	NA	4,000	Required for G-1.6 meter assembly to enhance meter production and quality improvement.
32	Screw feeding and tightening machine for assembling Top Cover with Body of G-1.6 Gas Meter. The required machine will be automatic type with the capability of three station simultaneous assembly of three meters.	5,000	1			1	MMP	NA	5,000	Required for G-1.6 meter assembly to enhance meter production and quality improvement.
33	Air Compressor (Rotary Screw type)	9,000			1	1	MMP	NA		To replace to existing 60 kw sullair Air compressor which is more than 30 years old and giving frequent trouble resulting in remarkable increase in the maintenance cost. The unit has also become under capacity due to increased work load of MMP.
34	Electric Change Over Switch (1600 amp / 450 volt L.T side).	3,000			1	1	MMP	NA	3,000	To replace existing manual changeover switch which is more than 15 years old and given the frequently trouble.
35	Index Name Plate Cutting Machine	2,000	1			1	MMP	NA	2,000	Required for cutting index name plate.
36	GI Ducting with insulation and flexible connection for air conditioning of G-4 Assembly Hall	3,000			1	1	MMP	NA	3,000	To replace the existing GI duct which has become more than 15 years old and badly corroded and broken at various spots resulting in the heavy leakage of cooling and decreasing the performance.
37	Butt Fusion Machines	6,300	4		3	7	UFG Division	NA	0.900	4 Additional each required by Distribution Hyderabad, Distribution Nawabshah, Distribution Sukkur, Distribution Larkana, 3 Replacement each required for Distribution Central Karachi, Distribution West Karachi, Distribution East Karachi

Sui Southern Gas Co. Ltd.
Details of Plant & Machinery
For F.Y. 2021 - 22

Table# D-6.1

S/N	Description	Projected Capitalisation (Rs in million)	Addition		Replacement	Total	Utility	Unit Cost Comparison Data		Need Assessment/ Cost Benefits
								Ref. Year	FY 2021-22	
Rs in million										
38	Electro Fusion Machines	8.000	-	16	16	16	UFG Division	NA	0.500	Replacement required for Distribution Central Karachi (3 Nos), Distribution West Karachi (3 Nos),Distribution East Karachi (2 Nos), Distribution Hyderabad (2 Nos), Distribution Nawabshah (2 Nos),Distribution Sukkur (2 Nos),Distribution Larkana (2 Nos),
39	Welding Plants	30.000	4	1	5	5	UFG Division	NA	6.000	Additional required for Distribution Central Karachi (2 Nos), Distribution West Karachi (1 Nos),Distribution East Karachi (1 Nos), 1 replacement required by Distribution West Karachi
40	Air Compressors	30.000	1	5	6	6	UFG Division	NA	5.000	1 Additional required by Distribution Larkana Replacement required for Distribution Central Karachi (2 Nos), Distribution West Karachi (2 Nos),Distribution East Karachi (1 Nos),
41	Smart Balls-Pipers	160.000	1	-	1	1	UFG Division	NA	160.000	Required for UFG Division
42	Trenchless - Pipeline Bursting	160.000	1	-	1	1	UFG Division	NA	160.000	Required for UFG Division
43	Pipeline Liner- Leak Repair	80.000	1	-	1	1	UFG Division	NA	80.000	Required for UFG Division
44	Odorizer Unit (Large)	72.000	8	-	8	8	UFG Division	NA	9.000	Additional required for Distribution Hyderabad (2 Nos), Distribution Nawabshah (1 Nos),Distribution Sukkur (1 Nos),Distribution Larkana (2 Nos), Distribution Balochistan (2 Nos)
45	Odorizer Unit (Small)	240.000	60	-	60	60	UFG Division	NA	4.000	Additional required for Distribution Central Karachi (3 Nos), Distribution Hyderabad (20 Nos), Distribution Nawabshah (6 Nos),Distribution Sukkur (8 Nos),Distribution Larkana (15 Nos), Distribution Balochistan (8 Nos) 150 Additional required by UFG Division
46	Automatic Pressure Management System-TBS	150.000	150	-	150	150	UFG Division	NA	1.000	Required for operation maintenance.
47	Air Compressor - Low Pressure - 100 Psig	2.800	1	-	1	1	DSM-DISTRIBUTION CENTRAL REGION	NA	2.800	Required to equipped all Maintenance teams, in order to attend low pressure complaints and to stop gas during rectification.
48	Tee Drilling Machine	1.200	-	3	3	3	DSM-DISTRIBUTION CENTRAL REGION	NA	0.400	Required for Fitter teams for stoppage of gas leakage during emergency.
49	Pipe Squeezing Machine Steel (With Hydraulic Pump)	2.100	3	3	6	6	DSM-DISTRIBUTION CENTRAL REGION	NA	0.350	Required for Welding teams for necessary repair and rectification work.
50	Pipe Squeezing Machine Steel (With Hydraulic Pump)	1.600	2	2	4	4	DSM-DISTRIBUTION CENTRAL REGION	NA	0.400	Require to establish new teams to meet the targets and replacement of existing asset No.
51	Welding Plant	3.500	-	1	1	1	DSM-DISTRIBUTION CENTRAL REGION	NA	3.500	

Sui Southern Gas Co. Ltd.
Details of Plant & Machinery
For F.Y. 2021 - 22

Table# D-6.1

S/N	Description	Projected Capitalisation (Rs in million)	Addition	Replacement		Total	Utility	Unit Cost Comparison Data		Need Assessment/ Cost Benefits
				Qty	Qty			Ref. Year	FY 2021-22	
Rs in million										
52	Dewatering Pump	2.400	-	2	2	2	DSM-DISTRIBUTION CENTRAL REGION	NA	1.200	Required for de-watering during rectification jobs.
53	Generator 5KVA	0.500	-	2	2	2	AINS LAYING-DISTRIBUTION CENTRAL REGION	NA	0.250	Required for P.E Teams
54	Air Compressor	2.800	-	1	1	1	CONSTRUCTION/M AINS LAYING-DISTRIBUTION CENTRAL REGION	NA	2.800	required at CONSTRUCTION/MAINS LAYING-DISTRIBUTION CENTRAL REGION
55	Generator 5KVA	1.000	2	2	2	4	REHABILITATION-DISTRIBUTION CENTRAL REGION	NA	0.250	Required for P.E Welding teams. Replacement required for defective.
56	Water Pump (Diaphragm Type)	1.200	1	-	1	1	REHABILITATION-DISTRIBUTION CENTRAL REGION	NA	1.200	Required for de-watering during rectification jobs.
57	Electro Fusion Machine	1.800	2	4	4	6	REHABILITATION-DISTRIBUTION CENTRAL REGION	NA	0.300	Required for P.E Welding teams. Replacement required for defective.
58	Welding Plant	3.500	1	-	1	1	UTILIZATION (IND)-DISTRIBUTION CENTRAL REGION	NA	3.500	Require to establish new teams to meet the targets.
59	Generator 5KVA	1.000	2	2	2	4	UTILIZATION (SERVICE SECTION)-DISTRIBUTION CENTRAL REGION	NA	0.250	Replacement required against Asset # 02250 (2005) & Asset # 40109 (2005) which is beyond economical repair
60	Electro Fusion Machine	1.800	2	4	4	6	UTILIZATION (SERVICE SECTION)-DISTRIBUTION CENTRAL REGION	NA	0.300	Replacement against old ones which beyond economical repair.
61	Transformer Rectifier	7.000	15	5	20	20	CP (D)	NA	0.350	For Cathodic Protection of Unprotected Underground Gas pipeline, 09 nos. TR for normal CAPEX Budget FY 2020-21 (Target mentioned in RA petition 2020-21) & 06 nos. Ex-NGEP Project. 1. 05 Nos. CP West Region 2. 05 Nos. CP East Region 3. 05 Nos CP Central Region
62	Electro Fusion Machine	0.900	1	2	2	3	MAINS LAYING (CONSTRUCTION)-EASTERN REGION	NA	0.300	Required for P.E Welding teams, replacement of old / defective machines.
63	Butt Fusion Machine (With Assecories)	1.800	1	1	1	2	MAINS LAYING (CONSTRUCTION)-EASTERN REGION	NA	0.900	Required for P.E Welding teams, replacement of old / defective machines.

Sui Southern Gas Co. Ltd.
Details of Plant & Machinery
For F.Y. 2021 - 22

Table# D-6.1

S/N	Description	Projected Capitalisation (Rs in million)	Addition	Replacement	Total	Utility	Unit Cost Comparison Data		Need Assessment/ Cost Benefits
							Ref. Year	FY 2021-22	
Rs in million									
64	Generator 5KVA	0.600	1	2	3	MAINS LAYING (CONSTRUCTION)- EASTERN REGION	NA	0.200	Required for P.E Welding teams
65	Generator 5KVA	0.400	-	2	2	UD (Services)- EASTERN REGION	NA	0.200	Replacement due to high maintenance cost
66	Electro Fusion Machine	0.600	-	2	2	UD (Services)- EASTERN REGION	NA	0.300	Replacement due to high maintenance cost
67	Electro Fusion Machine	1.200	2	2	4	Rehabilitation Section- Eastern Region	NA	0.300	Required for P.E Welding teams, replacement of old / defective machines.
68	Generator 5KVA	0.600	2	1	3	Rehabilitation Section- Eastern Region	NA	0.200	Required at Rehabilitation Section-Eastern Region
69	Generator 5KVA	0.600	1	2	3	DSM-EASTERN REGION	NA	0.200	Required for P.E Welding teams
70	Electro Fusion Machine	0.600	2	2	4	DSM-EASTERN REGION	NA	0.150	Required for P.E Welding teams
71	Water Pump (Diaphragm Type)	1.200	-	1	1	DSM-EASTERN REGION	NA	1.200	Required for Emergency work
72	Pipe Squeezing Machine (1"-2" dia Steel)	1.600	3	1	4	DSM-EASTERN REGION	NA	0.400	Required for Steel Welding teams
73	T-3 Drilling Machine	1.200	-	3	3	DSM-WESTERN REGION	NA	0.400	Required to equipped all Maintenance teams, in order to attend low pressure complains and to stop gas during rectification.
74	Electro Fusion Machine	0.600	1	1	2	DSM-WESTERN REGION	NA	0.300	Additional required by maintenance team for PE network.
75	Generator 5KVA	0.400	-	2	2	DSM-WESTERN REGION	NA	0.200	Required for above fusion machines
76	Pipe Squeezing Machine Steel (With Hydraulic Pump)	0.700	-	2	2	DSM-WESTERN REGION	NA	0.350	Required for Fitter teams for stoppage of gas leakage during emergency.
77	Pipe Squeezing Machine Steel (With Hydraulic Pump)	0.800	-	2	2	DSM-WESTERN REGION	NA	0.400	Required for Welding teams for necessary repair and rectification work.
78	Dewatering Pump	0.500	-	2	2	DSM-WESTERN REGION	NA	0.250	Required for de-watering during rectification jobs.
79	Pipe squeezing Machine 20mm To 63MM	1.800	2	1	3	CONSTRUCTION/ MAINS LAYING- WESTERN REGION	NA	0.600	Required for P.E Teams
80	Generator 5KVA	0.200	-	1	1	CONSTRUCTION/ MAINS LAYING- WESTERN REGION	NA	0.200	Required for P.E Teams
81	T Drilling Machine	0.400	1	-	1	UD (Industrial)- WESTERN REGION	NA	0.400	For Steel Welding Team
82	Generator 5KVA	0.400	-	2	2	UD (Services)- WESTERN REGION	NA	0.200	Replacement required against Asset # 02250 (2005) & Asset # 40109 (2005) which is beyond economical repair

Sui Southern Gas Co. Ltd.
Details of Plant & Machinery
For F.Y. 2021 - 22

Table# D-6.1

S/N	Description	Projected Capitalisation (Rs in million)	Addition	Replacement		Total	Utility	Unit Cost Comparison Data		Need Assessment/ Cost Benefits
				Qty				Ref. Year	FY 2021-22	
Rs in million										
83	Electro Fusion Machine	0.600	-	2	2	2	UD (Services)- WESTERN REGION	NA	0.300	Replacement against old ones which beyound economical repair.
84	Generator 5KVA	0.600	-	3	3	3	REHABILITATION WEST	NA	0.200	Required for P.E Welding teams. Replacement required for defective.
85	Water Pump (Diaphragm Type)	1.200	1	-	1	1	REHABILITATION WEST	NA	1.200	Required for de-watering during rectification jobs.
86	Electro Fusion Machine	1.200	2	2	4	4	REHABILITATION WEST	NA	0.300	Required for P.E Welding teams. Replacement required for defective.
87	Generator 6 KVA	0.600	-	2	2	2	Measurement Distribution	NA	0.300	Generators (02 Nos.) are required to replace old ones for smooth operations of Mobile Field Proving of Industrial Customer's gas meters.
88	Welding Plant	7.000	-	2	2	2	DISTRIBUTION NORTH (LS)	NA	3.500	Replacement is required for replacement of 2 No. 1996 Model which have become out of order for Industrial Section , S&U Section, Rehab Section and Construction Section HYD(1 of each section).
89	Air Compressor - 250 CU Ft/min @ 100 psig	5.600	-	2	2	2	DISTRIBUTION NORTH (LS)	NA	2.800	Additional Required for Tando Hyder and Shahdadpur subzones. Replacement required for 1 No. old/out of order compressor of industries section & 1 No. for Tando Allahyar Subzone.
90	Air Compressor (small size & pressure)	0.100	2	-	2	2	DISTRIBUTION NORTH (LS)	NA	0.050	Required for testing the houseline of domestic customers for rehabilitation.
91	Steel Pipe Squeezing Machine	0.700	2	-	2	2	DISTRIBUTION NORTH (LS)	NA	0.350	Additional required for Maintenance Hyderabad for Killing of service line of Industrial connections at high pressure.
92	Steel Pipe Squeezing Machine	0.400	1	-	1	1	DISTRIBUTION NORTH (LS)	NA	0.400	Additional required for Maintenance Hyderabad for Killing of service line of Industrial connections at high pressure.
93	Generator 5KVA	0.600	3	-	3	3	DISTRIBUTION NORTH (LS)	NA	0.200	Additional is required for PE Connections & PE Mains laying work to established new team in Utilization department & at Sub Zones of Hyderabad Region.
94	Electro Fusion Machine	0.900	3	-	3	3	DISTRIBUTION NORTH (LS)	NA	0.300	Additional is required for PE Connections & PE Mains laying work to established new team in Utilization department.
95	T Drilling Machine	1.500	1	2	3	3	DISTRIBUTION NORTH (LS)	NA	0.500	Additional required for Sub Zone of Hyderabad Region to equipped the Zones & Sub Zones. Replacement required for out of order Machine of S&U Hyderabad and Thatta.
96	Pipe Bending Machine	0.500	5	-	5	5	DISTRIBUTION NORTH (LS)	NA	0.100	Additional 1 no for each Zone to bend the GI pipe for U Band connection

Sui Southern Gas Co. Ltd.
Details of Plant & Machinery
For F.Y. 2021 - 22

Table# D-6.1

S/N	Description	Projected Capitalisation (Rs in million)	Addition		Replacement	Total	Utility	Unit Cost Comparison Data		Need Assessment/ Cost Benefits
			Qty	1	-	1		NA	1.200	
Rs in million										
97	Dewatering Pump	1.200	1	-	1	DISTRIBUTION NORTH (LS)	NA	1.200	Required for Rehabilitation Department where waterlogged area exists.	
98	Dewatering Pump	0.900	3	3	6	DISTRIBUTION NORTH (LS)	NA	0.150	Replacement for old at Maintenance, UD Hyderabad & Rehab. Deptt.	
99	Odorizer Unit (for SMS at different locations of Distribution Sindh)	50.000	10	-	10	DISTRIBUTION NORTH (LS)	NA	5.000	Additional required for Rehab & out stations of Hyderabad Region to equiped the Zones & Sub Zones.	
100	Welding Plant (Dc generating set engine 3 or 4 cylinder current rating 400 with 05 KVA at 220 volts, Horse Power 32 Hp to 40 Hp, RPM 500 idle to 1850, Trolley mounted with all accessories / attachments.)	3.500	-	1	1	MAINTENANCE	NA	3.500	Additional required at Baqar / Raju Nizamani, Oderolai, Bubak, Padidan of Nawabshah Region and for Larkana and Sukkur Region	
101	Air Compressor - 250 CU Ft/min @ 100 psig	2.800	-	1	1	MAINTENANCE	NA	2.800	Replacement required for Old one.	
102	Steel Pipe Squeezing Machine	0.700	2	-	2	MAINTENANCE	NA	0.350	Additional required for different maintenance activities.	
103	Generator 5KVA	0.200	1	-	1	MAINTENANCE	NA	0.200	Additional required to generate electricity for emergency maintenance work at sites while existing Generators are attached with P.E electro fusion work.	
104	P.E Pipe Squeezing Machine	0.200	1	1	2	MAINTENANCE	NA	0.100	Required for different maintenance activities to stop the gas in emergency. Mostly two squeezing machines are used to stop the flow of gas from both sides of pipeline. To meet the emergency in all zones of Hyderabad Region, we required one more additional machine.	
105	Electro Fusion Machine	0.350	1	-	1	MAINTENANCE	NA	0.350	Required for emergencies & leak rectification & Theft eradication jobs.	
106	Dewatering Pump	0.250	1	-	1	MAINTENANCE	NA	0.250	Required for dewatering of small pits during repair maintenance activities during drainage over flow in the streets.	
107	Dewatering Pump	0.450	1	2	3	MAINTENANCE	NA	0.150	Required for dewatering of small pits during repair maintenance activities during drainage over flow in the streets.	

Sui Southern Gas Co. Ltd.
Details of Plant & Machinery
For F.Y. 2021 - 22

Table# D-6.1

S/N	Description	Projected Capitalisation (Rs in million)	Addition	Replacement	Total	Utility	Unit Cost Comparison Data		Need Assessment/ Cost Benefits
							Ref. Year	FY 2021-22	
Rs in million									
108	E-5 Machine	0.800	1	-	1	MAINTENANCE	NA	0.800	Required for pipeline Maintenance activities in all zones of Hyderabad Region.
109	D-5 Drilling Machine	0.700	1	-	1	MAINTENANCE	NA	0.700	Required for pipeline Maintenance activities in all zones of Hyderabad Region.
110	Generator 5.5KVA	0.250	-	1	1	Measurement Distribution	NA	0.250	Generator is required to replace old one for smooth operations of Mobile Field Proving of Industrial Customer's gas meters.
111	Welding Plant	10.500	3	-	3	DISTRIBUTION NORTH (US)	NA	3.500	1 No. each additional required for Sub Zones Piryalo, Khanpur Mahar, Setharja, Rohri & Kotdiji.
112	Electro Fusion Machine	1.500	5	-	5	DISTRIBUTION NORTH (US)	NA	0.300	Required for Rohri & Pano Aqil Sub Zone & rehabilitation work to meet the targets
113	T-3 Drilling Machine	4.000	10	-	10	DISTRIBUTION NORTH (US)	NA	0.400	Required for UD & Zones / Sub Zones of Sukkur Region
114	Dewatering Pump	0.150	1	-	1	DISTRIBUTION NORTH (US)	NA	0.150	Required for R.O Sukkur
115	Transformer Rectifier	3.500	10	-	10	CP (D)	NA	0.350	For Cathodic Protection of Unprotected Underground Gas pipeline. 05 nos. TR for normal CAPEX Budget FY 2020-21 (Target mentioned in RA petition 2020-21) & 05 nos. Ex-NGEP Project.
116	Welding Plant	17.500	-	5	5	DISTRIBUTION NORTH (LS)	NA	3.500	Replacement required against irreparable / old model welding plant of FY 2005-11
117	Electro Fusion Machine	1.400	-	4	4	DISTRIBUTION NORTH (LS)	NA	0.350	Replacement required against irreparable / old model Electro fusion Machines
118	Generator 20KVA Petrol/Gas	3.000	2	-	2	DISTRIBUTION NORTH (LS)	NA	1.500	Additional required for Zonal Offices N'Feroze and Sanghar for power generation during breakdown of electricity
119	T Drilling Machine	1.500	-	3	3	DISTRIBUTION NORTH (LS)	NA	0.500	Replacement required against irreparable / old model Machines being available at different locations of N'Shah Region
120	D-5 Drilling Machine	0.700	1	-	1	DISTRIBUTION NORTH (LS)	NA	0.700	Additional required for commissioning / drilling of new developed schemes at N'feroze & Sanghar zones
121	Pipe Bending Machine	0.200	2	-	2	DISTRIBUTION NORTH (LS)	NA	0.100	Additional required for Zonal offices N'feroze & Sanghar

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Sui Southern Gas Co. Ltd.
Details of Plant & Machinery
For F.Y. 2021 - 22

Table# D-6.1

S/N	Description	Projected Capitalisation (Rs in million)	Addition	Replacement		Total	Utility	Unit Cost Comparison Data		Need Assessment/ Cost Benefits
					Qty			Ref. Year	FY 2021-22	
Rs in million										
122	Welding Plant (Dc generating set engine 3 or 4 cylinder current rating 400 with 05 KVA at 220 volts, Horse Power 32 Hp to 40 Hp, RPM 500 idle to 1850, Trolley mounted with all accessories / attachments.)	7.000	-	2	2	2	DISTRIBUTION NORTH (US)	NA	3.500	Replacement required for plants 3 Nos. R.O Larkana & 1 No at Thui, as the welding plants there become very old and are beyond economical repair.
123	Electro Fusion Machine	0.600	2	-	2	2	DISTRIBUTION NORTH (US)	NA	0.300	
124	Air Compressor - 250 CU Ft/min @ 100 psig	2.800	-	1	1	1	DISTRIBUTION NORTH (US)	NA	2.800	
125	Generator 5KVA	0.800	-	4	4	4	DISTRIBUTION NORTH (US)	NA	0.200	
126	Welding Plant 400 Amp	17.500	-	5	5	5	DISTRIBUTION NORTH BALUCHISTAN	NA	3.500	Required for Kuchlak, Pishin and replacement of Cantt, Samungli, Maintenance, Sariab, and Sibi
127	Air Compressor 100 psig	5.600	1	1	2	2	DISTRIBUTION NORTH BALUCHISTAN	NA	2.800	Required for Pishin and replacement of Cantt, Samungli, Maintenance, Sariab, and Sibi
128	T Drilling Machine	2.400	2	4	6	6	DISTRIBUTION NORTH BALUCHISTAN	NA	0.400	Addi (02) Nos for Mastung & Kuchlak and replacement for Sibi, Pishin, Sariab, Maint & Samungli and Cantt
129	D-5 Drilling Machine	2.100	1	2	3	3	DISTRIBUTION NORTH	NA	0.700	Addi (02) Nos for Mastung & Kuchlak and replacement for Sibi, Pishin, Sariab, Maint & Samungli and Cantt
130	Transformer Rectifier - 50 Volts 50 Ampere	4.550	10	3	13	13	CP (D)	NA	0.350	For Cathodic Protection of Unprotected Underground Gas pipeline.
131						-				05 nos. TR for normal CAPEX Budget FY 2020-21 (Target mentioned in RA petition 2020-21) & 05 nos. Ex-NGEP Project.
	Total	1,366.385	467	169	636	636				

Sul Southern Gas Co. Ltd.
Details of Construction Equipments
 For FY 2021 - 22

Table# D-6.2

S/N	Description	Projected Cost (Rs in million)	Addition		Replacement Units	Total No. of Units	Utility	Unit Cost Comparison Data		Need Assessment	Cost Benefit Analysis	Present Status (if any)
			Units					Ref. Year	FY 2021-22			
Rs in million												
1	Pipe Layer	135.000			1	1	Trans.		135.000	Replacement of 01 Nos Pipelayers required for forth coming Transmission/Distribution projects. In last few years retirement of 40 Ton Cat Pipelayers Inv# 02/08/09/0006 year of manufacturing 1975 alongwith 01 Nos 20 Ton CAT Pipelayers Inv#02/08/09/0001 Year of manufacture 1975 carried out. We have not recieved replacement of these capacities since 1994.		
2	Excavator	60.000			1	1	Trans.		60.000	Excavators with Bucket for Ditching in normal soil and with hammer attachment for hard rock are normally utilized. Heavy Duty Excavators required in replacement with recently retired Hyundai Excavators Inv# 13/08/14/0008 year of manufacturing 1991 and CAT Excavator Inv#09/08/001/0001		
3	Hydrostatic Pressurising Pump	30.000			1	1	Trans.		30.000	These pumps are required for pressurizing of large diameter pipelines at the defined pressure during hydrostatic testing activity. Replacement with 01 No. Hydrostatic Pressurising pump required against Retired Pump Inv. No. 02/08/037/0002.		
TOTAL		225.000	-		3	3						

Sui Southern Gas Company Limited
Detail of Motor Vehicles
For F.Y 2021 - 22

Table# D-6.3

Rs. In Million										
S/N	Description	Projected Cost Rs	Addition Units	Replacement Units	Total No. of Units	Unit Cost Comparison Data			Need Assessment	Cost Benefit Analysis
						Ref. Year	FY	FY 2021-22		
1	Car 1000 CC	9.90		5	5				1. Enhancement of UFG reduction oriented activities and expansion in Transmission and Distribution Network 2. Provision of connections to new customers in the existing areas, new towns and villages of Sindh and Balochistan. 3. Beefing up surveillance & monitoring 4. The replacement of old vehicles which have become redundant has also been proposed during F.Y 2021-22. The old vehicles have become uneconomical and due to frequent	The acquisition of proposed vehicles will facilitate the company to meet OGRA prescribed Service & Performance Standards. Frequent breakdown of old vehicles would be avoided, which will result in enhanced reliance on available resources and improve efficiency.
2	Car 1300 CC	6.02		2	2					
3	Hi Roof Van	67.50		54	54			1.250		
4	Specialized 4 Wheel Bikes	7.00	10		10			0.700		
5	Pickup 800 CC	44.46	18	21	39			1.140		
6	Pickup Single Cabin 4x4	754.00	9	121	130			5.800		
7										
GRAND TOTAL		888.880	37	203	240					

SUI SOUTHERN GAS COMPANY LIMITED

Table# D-6.3.1

DETAILS OF VEHICLES (OPERATIONAL & NON-OPERATIONAL)

PETITION 2021 - 22

				Rs. In Million
S#	OPERATIONAL VEHICLES	ADD.	REP.	TOTAL
1	Hi Roof Van		54	67.500
2	Specialized 4 Wheel Bikes	10		7.000
3	Pickup 800 CC	18	21	44.460
4	Pickup Single Cabin 4x4	9	121	754.000
5	Car 1000 CC		1	1.980
	Sub-Total Operational (A)	37	197	874.940
	NON-OPERATIONAL VEHICLES			
1	Car 1000 CC		4	7.920
2	Car 1300 CC		2	6.020
3	Car 1800 CC			
	Sub-Total Non-Operational (B)	-	6	13.940
	Grand Total (A+B)	37	203	888.880

Detail of Land

For F.Y 2021 - 22

NO.	DESCRIPTION	Amount Rs in million	Need / Justification
1			
2			
3		NIL	
4			
5			
	Total	-	

Sui Southern Gas Company Ltd.
Details of Buildings
For F.Y 2021 - 22

S No.	Description	F.Y 2021-22 Revenue Petition Rs Million	Need / Justifications
1	Civil work Project: Construction of Building at Phase I - DHA Karachi.	161.507	Required for Construction of building on SSGC's DHA plot at Phase I - DHA Karachi. Breakup of project is as follow: Building & Civil works Rs 114.727 million Plant & Machinery Rs 15 million Office Equipments Rs 14.841 million Security Equip. Rs 9.782 million Furniture Rs 7.158 million TOTAL Rs 161.507
2	Civil work Project: Construction of Building at Phase IV - DHA Karachi.	109.117	Required for Construction of building on SSGC's DHA plot at Phase IV - DHA Karachi. Breakup of project is as follow: Building & Civil works Rs 71.965 million Plant & Machinery Rs 15 million Office Equipments Rs 10.571 million Security Equip. Rs 6.421 million Furniture Rs 5.159 million TOTAL Rs 109.117
3	New Construction of ground plus first floor (9200 sq ft per floor) warehouse / stores at Meter Plant precast construction including plaster flooring and electrical work with commercial elevator. The accommodation will include storage area, offices, bathroom, and locker area. (9200 x 2 sq ft approx)	4.600	There is no proper warehouse for raw material, large components and finished goods in Meter Plant. The roof of existing storage area is made of metal sheet and not effectively protecting store items from weathering effects like rain water and ambient heat, specially for weather sensitive nature components. Capacity of finished goods warehouse is limited to one day product only.
Grand Total		275.224	

Sui Southern Gas Co. Ltd.
Details of Telecommunication
For F.Y. 2021 - 22

S/N	Description	Amount Rs in million	Need / Justification
1	Replacement of guyed towers with self-support tower at Thariri Mohabat	55.000	The 250 ft. old Guyed Tower were deployed in 1975-76 at RS-1, RS Thariri wheras 225 feet guyed tower at RS Sari outlived their economical life. The reason for self support tower deployment came to cater wind loading of solid radom antennas, which were used after migration of communication system from 2.GHz to 8 GHz. Furthermore the old towers were designed for Grid Antennas not for Radome Antennas.
2	Reporting server for SCADA System	15.000	Reporting server is required for Daily weekly reports for Transmission Department and Distribution Department.
3	Drone with camera	0.250	Drone with camera is required for inspection of an antenna and towers.
4			
Total		70.250	

Table#D-6.7

Sui Southern Gas Co. Ltd.
Details of Tools & Equipments
For F.Y. 2021-22

		Rs in million
S/N	Description	Amount
1	6" Control Valve	7.000
2	Air Blower Heavy Duty	0.080
3	Air Pump (Vehicle)	0.015
4	Angle Grinder	0.225
5	Battery Charger	0.150
6	Black box hidden Spy Camera	0.280
7	Buffing Machine	1.000
8	Chain Pulley Block along with Tripod	0.050
9	Chain Pully Block	0.200
10	Circuit Breaker Draw type	1.500
11	Clamp Meter /Tong Tester	0.160
12	Clamp Meter with accessories (Digital)	0.450
13	Coating Thickness Meter	0.200
14	Compression Meter	0.080
15	D-5 Drilling Machine	0.400
16	Dead Weight Tester	2.900
17	Die Set (1/2" to 1")	0.500
18	Digital Multimeter/ Digital Volt Meter	0.100
19	Digital Pressure Gauge	6.080
20	Digital Thermometer	0.605
21	Electric Die Machine	0.040
22	Electric Motor Driven Pressure Cleaner	0.400
23	Electronic Pressure Gauge	1.540
24	Exhaust Fan Plastic body	0.210
25	Gas Cutting & Welding set	0.750
26	Gas Leak Detector	105.320
27	Gas leak Detector	0.800
28	Gas Leak Detector - Handheld Mini	4.200

Table#D-6.7

Sui Southern Gas Co. Ltd.
Details of Tools & Equipments
For F.Y. 2021-22

		Rs in million
S/N	Description	Amount
29	Gas Leak Detector - Laser Technology	30.000
30	GPS enabled magnetic vehicle tracking device	0.280
31	Grease Gun	0.300
32	Grinder	0.040
33	Grinder Machine	0.025
34	Hand Held Bag Stitching Machine	0.330
35	Hand Pallet	0.450
36	Hand Pallet Truck	0.500
37	Heavy Duty Rechargeable Light	0.200
38	High Pressure Grease Gun	0.150
39	Holiday Detector	4.300
40	Hydraulic Grease Gun	1.400
41	Laser Distance Measuring Device	0.120
42	Laser Methane Leak Detector Handheld	2.900
43	Loose Tools	0.900
44	Measuring Wheel	0.090
45	Multi Functional Calibrator with Complete Kit	1.600
46	Multimeter Digital with accessories	0.350
47	Multipurpose Kit Bags	0.120
48	Odor Meter	6.000
49	Odorant Detector	0.700
50	Padestal Fan	0.810
51	Padestial fan Remote control	0.200
52	Peel Tester Force in Kg & Lbs	0.500
53	Pipe Squeezing Machine Steel (With Hydraulic Pump)	2.500
54	Pipeline Cable Locator	3.300
55	Pipeline Current Mapper (PCM)	2.000
56	Pipeline locator	10.850
57	Pit Gauge	0.100

Table#D-6.7

Sui Southern Gas Co. Ltd.
Details of Tools & Equipments
For F.Y. 2021-22

S/N	Description	Rs in million
		Amount
58	Plasma Cutting Machine with accessories	4.000
59	Plunger Bar	6.800
60	Pneumatic analog pressure guage	0.220
61	Portable Surface Roughness Tester	1.000
62	Portable Welding Units (Engine Driven)	0.660
63	Power Grinder	0.025
64	Pressure Gauges Digital	0.220
65	Prover for Domestic / Commercial Meter (Software	50.000
66	Ratchet Die Set	3.700
67	Road Breaker (Electric)	0.700
68	Road Breaker / Hydraulic jack Hammer	0.300
69	Road Ditching Drill	0.200
70	Set of Tools Box containg special spaners, wrenches, allen	0.400
71	Smart Wrenches	0.125
72	Solar Battery Tester	0.800
73	Spy eye glasses Hd	0.800
74	Steel Racks	0.810
75	Surface profile gauge(Digital)	0.250
76	Tool-Kit Trolly	0.700
77	Trolley for Cylinders (Oxygen & DA)	0.150
78	Ultra Sonic Thickness Gauge	0.400
79	Ultraviolet temperature meter	0.100
80	Various Inspection Testing Equipments	1.000
81	Vernier Caliper Digital	0.600
82	WISE with triport stand	1.800
83	Voice activated audio recorder / listaning bug	0.160

Table#D-6.7

Sui Southern Gas Co. Ltd.
Details of Tools & Equipments
For F.Y. 2021-22

		Rs in million
S/N	Description	Amount
84	Water Testing Equipments	0.080
85	Wet film thickness meter	0.150
86	Wet Test Meter	2.000
TOTAL		284.400

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.

Sui Southern Gas Co. Ltd.
Details of Compressor Stations
For FY 2021 - 22

Table# D-6.8

S/N	Description	RLNG related	Addition Units	Replacement Units	Total No. of Units	Projected Cost (Rs in millions)	Need Assessment	Cost Benefit Analysis	Reasons for Variations
1	Overhaul of Solar T-60 Gas Turbine Engine including FAT & FSR Installation charges					365.000	Solar T-60 Gas Turbine Engine S/No. 2350F is installed at Solar Unit B at HQ-2 Daur Compressor Station and has completed 15,000 Hours. As per Operating Hours history Turbine engine shall complete recommended overhaul hours i.e. 30K in FY 2021-22, therefore Turbine Engine is proposed for overhaul.		
2	Installation/Testing FSR charges of New Procured Solar Gas Turbine Engine plus miscellaneous inspections on all six Solar units					20.000	One number new Solar T-60 Gas Turbine Engine is in procurement process and POW 23/TKT/25972 has been issued to Solar Turbines. The expected delivery date of subject Engine is 1st Quarter of 2021. FSR required to install/test of subject engine to cover warranty. The amount proposed as installation/testing charges which was not included in POW 23/TKT/25972.		
3	Rotor - DR 990 Turbo Compressor (Capacity 120 MMSCFD)		1		1	90.000	It is necessary to cover the warranty of Taurus 60 Engine Overhaul at OEM facility. There is no Spare Rotor of Dry Seal System configuration for 02 DR 990 turbo-compressors installed at Shikarpur Compressor Station. The spare Rotor is therefore required to meet any emergency in case of installed Rotor failure.		
4	Fuel Control Valve (AGV-10 01 No.)		1		1	9.000	It is required to ensure in-interrupted gas supply to Quetta/Baluchistan via GPL (Shikarpur Compressor Station). Seven DR-990 Gas Turbine Fuel control valve AGV-10 are installed and in continuous operation. Only one valve is in store stock. Run the compressor unit smoothly to meet the gas demand of Sind & Baluchistan.		
5	Actuated Valves, size 18 inch (04 Nos)		4		4	30.000	Station isolation valves installed in 1984, creating trouble whenever station shutdown, lot of time waste to operate the valve. They have become obsolete, spare parts are not available. The valves are required for HQ-3 and HQ-2 Dresser Rand Compressor station. It will reduce the compressor station shutdown time and transport gas flow without delay.		
6	Screw Air Compressor (5 Cubic meter per minute at 0.7Mpa, 01 No.)			1	1	0.500	For dry gas seal system of Solar gas turbines at HQ-Sibi. Existing Air Compressor is very old defective and in operative. Replacement is required for clearing of Air Filter, process gas cooler, lube oil cooler and generator radiator.		
7	Instrument Air Compressor, Air flow 320ACFM, full load pressure 150 PSI (01 No.)		1		1	2.500	For dry gas seal system of all six units and instrument air supply to all instrumentation.		
8	Diesel Engine Fire Pump (500 US Gallons per minute) 01 No.			1	1	0.600	The existing fire pump is very old, body is corroded, creating troubles during startup, beyond economical repair.		
9	01 New Compressor Unit at Sibi		1		1	2,268.632			
10	SUB-TOTAL New-RLNG related					2,796.232			

Details of Compressor Stations
For FY 2021 - 22

Table# D-6.8

S/N	Description	RLNG related	Addition Units	Replacement Units	Total No. of Units	Projected Cost (Rs in million)	Need Assessment	Cost Benefit Analysis	Reasons for Variations
11	Gas Turbine Engine Solar Taurus T-60 (7800 HP) with storage container EAT charges and FSR installation charges	RLNG	1	.	1	462.000	In order to create a healthy gap between MoH of the T60 engines at HQ2 one more spare engine is required. This will ensure seamless and uninterrupted supply of RLNG to SINGPL. It will facilitate transport of Uninterrupted RLNG-II volume to SINGPL when any installed gas turbine is under overhaul/ repair / breakdown.		
12	30 K Overhaul of Solar T-60 Gas Turbine Engine installed at RLNG HQ-2 Compressor Station	RLNG	1		1	300.000	Six Turbine Engines are installed at RLNG HQ-2 Compressor Station. Solar Unit B has clocked 12000 Hrs. and our projected Hrs. at the time of despatching this Engine in 2020-21 are about 28000 Hrs. The Engine is to be overhauled at Original Equipment Manufacturer M/s Solar Turbines overhaul facility as per OEM recommended overhaul schedule.		
13	Refurbishment of Dry gas Seal Cartridges for Solar T-60 Gas compressor installed at RLNG HQ-2 Compressor Station	RLNG	2	.	2	9.000	After Refurbishment / overhaul of Solar T-60 gas Compressor at HQ2, We have recovered 14 No Dry Gas Seal Cartridges which need refurbishment to use in the future in case of failure of any seal. In the first phase we will send 6 seal cartridges to OEM M/s John Crans for refurbishment.		
14	Compressor units & extension of facility at Nawabshah (Total 30,000 HP) - (leftover work) RLNG	RLNG	.	.	.	206.850	Required for leftover work		
15	SUB-TOTAL RLNG related					977.850			
	TOTAL		12	2	14	3,764.082			

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SUI SOUTHERN GAS COMPANY LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT

For FY 2021-22

INDEX - SECTION - E

E

Details of Transmission and Distribution Cost

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Table # E-1

SUI SOUTHERN GAS COMPANY LIMITED
Transmission and Distribution Cost - Detailed

Rs. Million

S.No.	Description	Determination ERR FY 2020-21	Review Petition ERR FY 2020-21 (15- 10-2020)	ERR Petition FY 2021-22	Variance of Pet 2021-22 over OGRA Det. 2020-21	Notes on Reason for change
1.a	Salaries, wages and benefits	12,497.00	17,312.00	17,312.00	4,815.00	1
1.b	Third party/casual workers existing cost reclassification from repair & maintenance			1,322.00	1,322.00	
1.c	Incremental impact of third party/casual workers induction			1,178.00	1,178.00	
1	Sub-total HR cost	12,497.00	17,312.00	19,812.00	7,315.00	
2	Gas Internally Consumed					
	Compression		500.95	584.49		
	Domestic / Other use		66.94	87.77		
	Distribution		4.52	5.07		
	Other - LHF		0.27	0.12		
	Sub total:	364.80	572.68	677.45	312.65	2
3	Stores and Spares Consumed					
	Transmission & Compression and Others		343.31	327.67		
	Distribution		862.92	823.61		
	Head Office		133.28	127.21		
	Freight & handling		21.49	20.51		
	Printing & Stationery			23.00		
	Gas Bills Printing Charges			86.00		
	Sub total:	798.00	1,361.00	1,408.00	610.00	3
4	Material & labour used on consumer's installation	39.00	39.00	36.00	(3.00)	
5	Electricity	278.00	352.00	290.00	12.00	
6	Rent, Rates, and Taxes					
	Rent	172.00	172.00	168.12	(3.88)	
	Others	116.00	116.00	111.54	(4.46)	
	Sub total:	288.00	288.00	279.67	(8.33)	
7	Travelling					
	Local travelling					
	Executives	25.58	25.58	22.51	(3.07)	
	Subordinates	4.63	4.63	4.75	0.12	
	Foreign travelling	0.65	0.65	0.77	0.12	
	Other travelling	89.13	89.13	93.22	4.09	
	Sub total:	120.00	120.00	121.25	1.26	
8	Insurance & Royalty	136.50	136.50	131.96	(4.54)	
9.a	Postage and revenue stamps			18.00		
9.b	Bill Delivery through Contractors			127.00		
9	Sub-total postage & bill delivery	113.00	113.00	145.00	32.00	
10	Repair and Maintenance, software development					
	Transmission		208.32	215.03		
	Distribution		1,952.40	558.73		
	Compression		1.93	2.90		
	Other		565.83	370.83		
	Software Maintenance			220.00		
	Sub total:	1,567.00	2,728.48	1,367.50	(199.51)	4
11	Legal and Professional charges	129.00	129.00	140.00	11.00	5
	Meter Reading by Contractors	90.00	90.00	130.00	40.00	
	Collection Agent Commission	3.00	3.00	3.00	-	
	Sub total:	222.00	222.00	273.00	51.00	

SUI SOUTHERN GAS COMPANY LIMITED
Transmission and Distribution Cost - Detailed

Rs. Million

S.No.	Description	Determination ERR FY 2020-21	Review Petition ERR FY 2020-21 (15- 10-2020)	ERR Petition FY 2021-22	Variance of Pet 2021-22 over OGRA Det. 2020-21	Notes on Reason for change
12	<u>Security Expense</u>					
	Transmission	466.85	466.85	491.26	24.41	
	Distribution	242.68	242.68	255.37	12.69	
	Head Office and others	36.47	36.47	38.38	1.91	
	Sub total:	746.00	746.00	785.00	39.00	
13	OGRA Fee	211.53	161.80	283.37	71.84	
14	Advertisement	120.00	120.00	164.00	44.00	
15	Gas Bills Collection Charges	229.47	271.46	271.16	41.69	
17	<u>Other</u>					
	Communications	35.00	35.00	34.00	(1.00)	
	Other miscellaneous	122.40	122.40	103.00	(19.40)	
	Sub total:	157.40	157.40	137.00	(20.40)	
	Gross T&D Cost	17,887.70	24,701.32	26,182.35	8,294.66	
18	Revenue Expenditure relating to LNG - expenses	214.00	263.73	217.58	3.58	
19	RLNG - Gas Consumed Internally	-	1,709.39	2,051.60	2,051.60	
	Sub-total project cost	214.00	1,973.12	2,269.18	2,055.18	
	Gross T&D Cost	18,101.70	26,674.44	28,451.53	10,349.83	
20	<u>Less : Recoveries /Allocations</u>					
	Amount allocated to GDS (N)		1,998.47	1,834.12		
	Others		1.60	4.23		
	Installation Cost Recovered		19.00	28.27		
	Cost allocated to Meter Plant		5.00	3.50		
	Recoveries/Refunds of Services Cost from/to SNGPL		264.42	122.71		
	Installation Cost Recovered from Customer RLNG			2.56		
	Recovery of services cost (gas transportation)			281.86		
	Allocation to (out)		55.10	56.15		
	Sub total:	2,293.86	2,343.59	2,333.39	39.53	
	Net T&D Cost	15,807.84	24,330.85	26,118.14	10,310.30	

NOTES ON REASONS FOR VARIATIONS FROM OGRA DETERMINATION ON ERR FOR FY 2020-21 DATED 14.07.2020

		Rs. Million
1	HR Cost: Please see details in basis & assumptions.	
2	Gas Internally Consumed: Increased is mainly due to decrease in volumes & increase in rates:	
	-Volume variance	227.38
	-Rate variance	85.27
	Total	312.65
3	Stores, Spares & Supplies Consumed: The Authority deducted an amount of Rs. 563 million i.e. 41% from the estimates of the company Rs. 1,361 in ERR FY 2020-21, beside this extensive UFG 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	Repair & Maintenance: Please see details in basis & assumptions.	
5	Legal & Professional Charges: The main reason for increase under this head is mainly due to increase in litigation against the company.	

SUI SOUTHERN GAS COMPANY LIMITED
GIC : COMPRESSOR STATIONS

Table # E-2

Particulars	Determination ERR FY 2020-21 14-7-2020	Review Petition ERR FY 2020-21 (15-10-2020)	PETITION ERR FY 2021-22
Compressor Station A (Location) SKP			
Compressor Running hours		8,760.0	10,900.0
Volume of gas handled /compressed (MMCF)		33,288.0	47,000.0
Volume of gas handled /compressed (MMBTU)		31,890.0	44,932.0
GIC (MMCF)		348.0	430.0
GIC (BBTU)		333.4	411.1
GIC (Rs. in million)		182.8	251.3
Compressor Station C (Location) HQ- 3			
Compressor Running hours		15,432.0	17,500.0
Volume of gas handled /compressed (MMCF)		62,344.0	85,000.0
Volume of gas handled /compressed (MMBTU)		61,010.0	82,450.0
GIC (MMCF)		504.0	550.0
GIC (BBTU)		493.9	533.5
GIC (Rs. in million)		270.8	326.2
Compressor Station D (Location) SIBI			
Compressor Running hours		4,320.0	1,100.0
Volume of gas handled /compressed (MMCF)		49,275.0	4,000.0
Volume of gas handled /compressed (BBTU)		47,304.0	3,840.0
GIC (MMCF)		90.0	12.0
GIC (BBTU)		86.4	11.5
GIC (Rs. in million)		47.4	7.0
Total Compressors (All Locations)			
Compressor Running hours		28,512.0	29,500.0
Volume of gas handled /compressed (MMCF)		144,907.0	136,000.0
Volume of gas handled /compressed (BBTU)		140,204.0	131,222.0
GIC (MMCF)	592	942.000	992.000
GIC (BBTU)	568	913.714	956.100
GIC (Rs. in million)	298.84	500.944	584.550

Table # E-2

SUI SOUTHERN GAS COMPANY LIMITED
GIC: METERED / UNMETERED

Table # E-3

Particulars	FY 2020-21			FY 2020-21			FY 2021-22		
	OGRA Determination			REVIEW PETITION ERR			PETITION		
	MMCF	MMMBTU	Rs. Million	MMCF	MMMBTU	Rs. Million	MMCF	MMMBTU	Rs. Million
Compression									
Metered				942.0	913.7	500.9	992.0	956.0	584.5
Unmetered									
Sub total				942.0	913.7	500.9	992.0	956.0	584.5
Company own use									
Metered				126.0	122.1	66.9	148.8	143.6	87.8
Unmetered				0.0	0.0	0.0	0.7	0.7	0.4
Sub total:				126.0	122.1	66.9	149.5	144.2	88.2
LHF - Internally used									
Metered				0.5	0.5	0.3	0.2	0.2	0.1
Unmetered				0.0	0.0	0.0	0.0	0.0	0.0
Sub total:				0.5	0.5	0.3	0.2	0.2	0.1
Gas Purged									
Metered				0.0	0.0	0.0	0.0	0.0	0.0
Unmetered				20.0	20.0	11.0	30.5	30.5	18.6
Sub total:				20.0	20.0	11.0	30.5	30.5	18.6
Domestic/other use									
Sub total: Transmission				5.0	5.0	2.7	7.9	7.0	4.3
				1093.5	1061.3	581.9	1180.1	1137.9	695.7
Loss Due To Sabotage									
Transmission									
Distribution									
Total									
Distribution									
Metered				7.9	8.3	4.5	8.0	8.3	5.1
Unmetered				0.0	0.0	0.0	0.0	0.0	0.0
Sub total:				7.9	8.3	4.5	8.0	8.3	5.1
Third Party Damages									
Unmetered				364.5	361.8	198.3	364.5	361.8	221.2
Sub total Distribution				372.4	370.0	202.9	372.5	370.1	226.3
GAS CONSUMED									
INTERNALLY TOTAL	713.0	686.0	365.0	1465.9	1431.3	784.7	1552.6	1508.0	922.0
Metered									
Unmetered	713.0	686.0	365.0	1076.4	1044.566	572.7	1149.0	1108.0	677.4
Sub total	0.0	0.0	0.0	389.5	386.8	212.0	403.6	399.9	244.5
GRAND TOTAL	713.0	686.0	365.0	1465.9	1431.3	784.7	1552.6	1508.0	922.0

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

Table # E-4

Rs. Million

Particulars	FY 2020-21	FY 2020-21	FY 2021-22	Variance of Pet 2021-22 over OGRA Det. 2020-21	
	Determination ERR	Review Petition ERR	Petition	Rs. Million	%age
Transmission	343.31	343.31	327.67	(15.64)	(5)
Distribution	862.92	862.92	823.61	(39.31)	(5)
Head Office	133.28	133.28	127.21	(6.07)	(5)
Sub total	1339.51	1339.51	1278.49	(61.02)	(5)
Freight & Handling	21.49	21.49	20.51	(0.98)	(5)
Sub total	1361.00	1361.00	1299.00	(62.00)	(5)
Printing & Stationery			23.00		
Gas Bills Printing Charges			86.00		
Less en-block reduction by OGRA	563.00				
Allowed	798.000	1361.000	1408.000		

SUI SOUTHERN GAS COMPANY LIMITED
Electricity

Table # E-5

Particulars	FY 2020-21	FY 2020-21	FY 2021-22	Rs. Million	
				Variance of Pet 2021-22 over OGRA Det. 2020-21	%age
	Determination ERR	Review Petition ERR	Petition	Rs. Million	
Transmission & Compression Distribution	59.00	53.31	43.92	(15.08)	(26)
1 Karachi Region	120.26	127.16	104.76	(15.50)	(13)
2 Sindh Interior Region	49.68	65.13	53.66	3.98	8
3 Balochistan Region	30.75	12.72	10.48	(20.27)	(66)
Sub total	259.68	205.01	168.90	(90.78)	(35)
Head Office	93.68	93.68	77.18	(16.50)	(18)
Grand total	353.36	352.00	290.00	(122.36)	(35)
Less en-block reduction by OGRA Allowed	75.36				
	278.00				

SUI SOUTHERN GAS COMPANY LIMITED
TRAVELLING EXPENSES

Table # E-6

Rs. Million

Particulars	FY 2020-21	FY 2020-21	FY 2021-22	Variance of Pet 2021-22 over OGRA Det. 2020-21	
	OGRA Determination ERR	Review Petition ERR	Petition	Rs. Million	%age
Transmission	27.46	27.46	27.75	0.29	1
Distribution	18.90	18.90	19.10	0.20	1
Head Office	73.63	73.63	74.41	0.77	1
Total	120.00	120.00	121.25	1.26	1

**SUI SOUTHERN GAS COMPANY LIMITED
INSURANCE**

Table # E-7
Rs. Million

Particulars	FY2020-21		FY2020-21	FY2021-22	Variance of Pet 2021-22 over OGRA Det. 2020-21	
	OGRA Determination ERR	Review Petition ERR	Petition	Rs.Million	%age	
Third Party insurance	0.52	0.52	0.43	(0.09)	(18)	
Fire risk/Damage to property	64.94	57.45	53.37	(11.57)	(18)	
Motor Vechical Insurance	44.02	65.37	36.18	(7.84)	(18)	
Other Insurance including Consequential loss	44.16	12.90	41.98	(2.18)	(5)	
Total	153.64	136.24	131.96	(21.67)	(14)	
Less en-block reduction by OGRA Allowed	17.14					
	136.50					

SUI SOUTHERN GAS COMPANY LIMITED
PROFESSIONAL CHARGES

Table # E-8

Particulars	FY 2020-21		FY 2020-21		FY 2021-22		Variance of Pet 2021-22	
	OGRA Determination ERR		Review Petition ERR		Petition		over OGRA Det.	
							Rs. Million	%age
Professional charges		46.00		46.00		48.00	2.00	4
Total		46.00		46.00		48.00	2.00	

SUI SOUTHERN GAS COMPANY LIMITED
SECURITY EXPENSE

Table # E-9

Particulars	FY 2020-21	FY 2020-21	FY 2021-22	Rs. Million	
				Variance of Pet 2021-22 over OGRA Det. 2020-21	
				Rs. Million	%age
	OGRA Determination ERR	Review Petition ERR	Petition		
Transmission	466.85	466.85	491.26	24.41	5
Distribution	242.68	242.68	255.37	12.69	5
Head Office & Others	36.47	36.47	38.38	1.91	5
Total	746.00	746.00	785.00	39.00	5

**SUI SOUTHERN GAS COMPANY LIMITED
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Table # E-10
Rs. Million

Particulars	FY 2020-21	FY 2020-21 OGRA Determination ERR	FY 2020-21 Review Petition ERR	FY 2021-22 Petition	Variation between FY 2021-22 & 2020-21	
					Rs. Million	%age
1 Compulsory Advertisement			110.00	150.33		
2 Voluntary Advertisement			10.00	13.67		
Total		120.00	120.00	164.00	44.00	37