

Annexures

Annexure-1 (Referred to in Para no. 1.6.2)

Enumeration of PNGRB functions

Section 11 of the PNGRB Act, 2006

The Board shall-

- (a) protect the interest of consumers by fostering fair trade and competition amongst the entities
- (b) register entities to –
 - (i) market notified petroleum and petroleum products and, subject to the contractual obligations of the central Govt, natural gas
 - (ii) establish and operate liquefied natural gas terminals
 - (iii) establish storage facilities for petroleum, petroleum products or natural gas exceeding such capacity as may be specified by regulations
- (c) authorise entities to –
 - (i) lay, build, operate or expand a common carrier or contract carrier
 - (ii) lay, build operate or expand city or local natural gas distribution network
- (d) declare pipelines as common carrier or contract carrier
- (e) regulate, by regulations-
 - (i) access to common carrier or contract carrier so as to ensure fair trade and competition amongst entities and for that purpose specify pipeline access code
 - (ii) transportation rates for common carrier or contract carrier
 - (iii) access to city or local natural gas distribution network so as to ensure fair trade and competition amongst entities as per pipeline access code
- (f) in respect of notified petroleum, petroleum products and Natural Gas-
 - i) ensure adequate availability,
 - ii) ensure display of information about the maximum retail prices fixed by the entity for consumers at the retail outlets,
 - iii) monitor prices and take corrective measures to prevent restrictive trade practice by the entities,
 - iv) secure equitable distribution for petroleum and petroleum products,
 - v) provide, by regulations and enforce retail service obligation for retail outlets and marketing service obligations for entities
 - vi) monitor transportation rates and take corrective action to prevent restrictive trade practice by the entities
- (g) levy fees and other charges as determined by regulations,
- (h) maintain a data bank of information on activities relating to petroleum, petroleum products and natural gas
- (i) lay down, by regulations, the technical standards and specifications including safety standards in Activities relating to petroleum, petroleum products and Natural Gas, including the construction and operation of pipeline and Infrastructure projects related to downstream petroleum and Natural Gas sector.
- (j) perform such other functions as may be entrusted to it by the Central Government to carry out the provisions of this act.

Statement showing list of LNG terminals that received FIPB clearance during 1997-2000

Sl. No	Company	Foreign Collaborator	Location	Capacity in mmtpa	
				Initial	Future Expansion
1	Enron International	Enron International	1 Dabhol (Maharashtra)	2.5	5 & 10
2	British Gas	British Gas	2 Pipavav (Gujarat)	2.5	5
3	Ispat Group of Industries	Ispat Energy	3 Kakinada (Andhra Pradesh)	2.5	Not Available
4	Reliance Industries	GDR/ADR private placement	4 Jamnagar (Gujarat)	5	N.A.
5	Royal Dutch Shell group of companies	Shell	5 Hazira (Gujarat)	5	N.A.
6	Petronet LNG Limited	Gaz de France	6 Hazira (Gujarat)	2.7	N.A.
7	BHP Petroleum	BHP Petroleum	7 Dahej (Gujarat)	5	N.A.
8	Hardy oil/Nagarjuna Holdings	Hardy oil and BHP petroleum	8 Kochi (Kerala)	2.5	N.A.
9	Tractebel	Tractebel	9 Not specified	Not specified	N.A.
10	Dakshin Energy Consortium	Unocal, Woodside, Siemens, CMS Energy	10 Kakinada (Andhra Pradesh)	1	5
11	GAIL-TEC-TOTAL Consortium of Fertilizer Companies	TOTAL	11 Not specified	Not specified	N.A.
12	AL Manhal	AL Manhal, UAE	12 Ennore (Tamil Nadu)	2.5	N.A.
13			13 Trombay (Maharashtra)	3	6
14			14 Kishoriprasad	3	6
15			15 Gopalpur (Orissa)	3	N.A.
		Total	15	40.2	

Note: Thirteen entities for 15 terminals with 40.2 mmtpa/145 mmcmd approximately.

Annexure-3 (Referred to in Para- 3.2.2)

Statement showing year wise position of LNG terminals

Year	Status of development of LNG terminals	Location	Envisaged Capacity (mmtpa)	Actual capacity created (mmtpa) cumulative
1997	MoPNG approved formation of Petronet LNG Limited (PLL) to implement LNG projects	Ennore, Manglore, Kochi, Hazira and Dahej and any other suitable location	--	--
1997-2000	FIPB cleared 15 LNG terminals across the coastal states (As per Annexure-2)	(As per Annexure-2)	40.2	
2000-04	None of the LNG terminals were materialised			Nil
2004-05	LNG terminals commissioned at Dahej (5 mmtpa) by PLL and at Hazira (2.5 mmtpa) by Shell in Gujarat		7.5	7.5
2005-12	No further development during this period		NIL	Nil
2012-13	PNGRB received applications for setting up of 5 LNG terminals	1. Dahej (Gujarat)	5	
		2. Gangavaram (Andhra Pradesh)	5	
		3. Pipavav (Gujarat)	3	
		4. Mundra (Gujarat)	5	
		5. Jaigarh	8	
	Total		26	
	LNG terminal commissioned at Dabhol (Maharashtra) in January 2013		2	9.5
2012-13	Dahej terminal upgraded from 5 mmtpa to 10 mmtpa and Hazira upgraded from 2.5 to 5 mmtpa		7.5	17
2013-14	LNG terminal at Kochi set up		5	22
At present four LNG terminal at (Dahej, Hazira, Dabhol and Kochi are operational in India with 22 mmtpa/79.2 mmcmd)				

Annexure-4 (Referred to in Para-3.3)

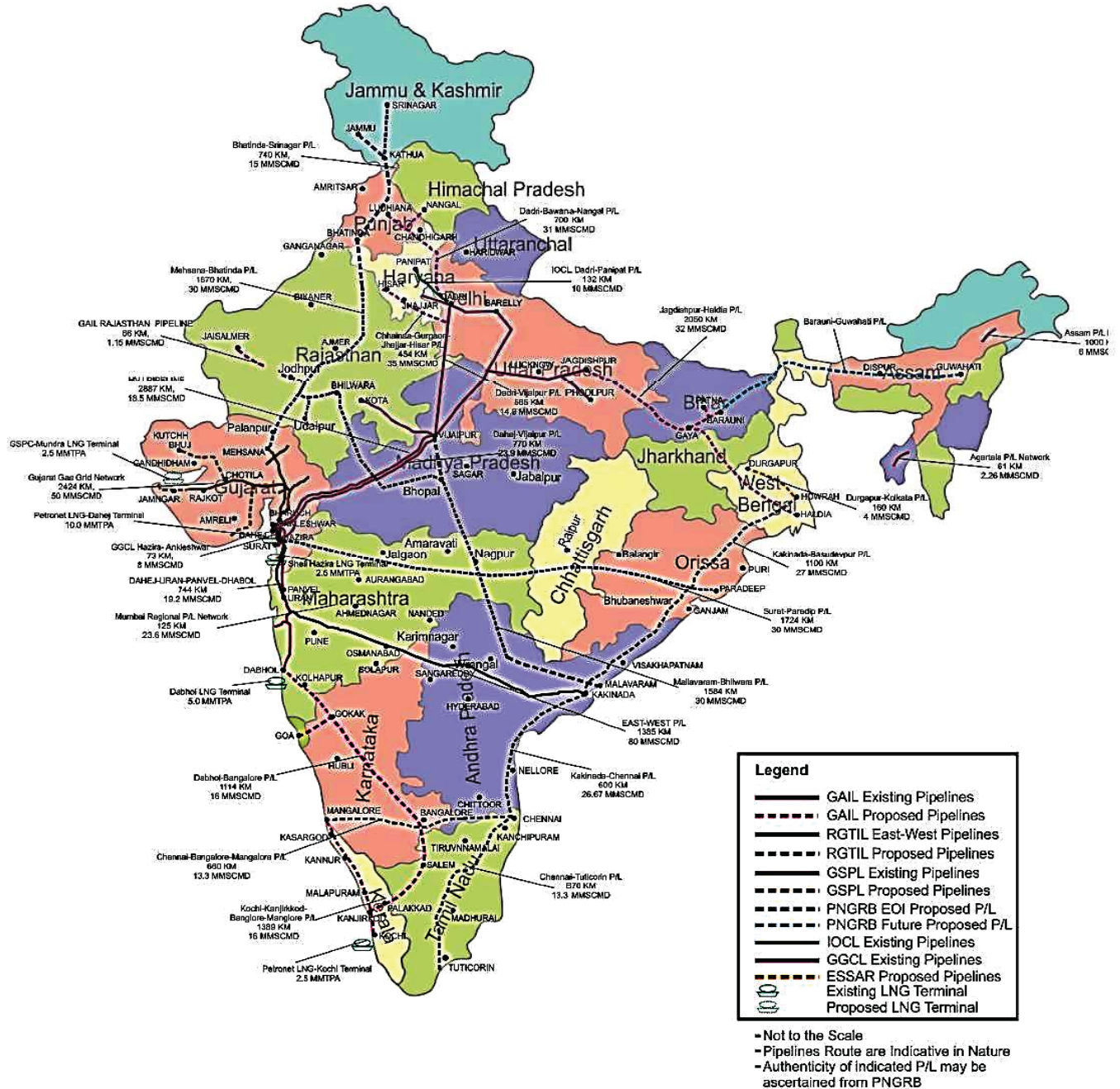
Statement showing status of pipeline infrastructure operational in India

Pipeline	Entity	Length Km	Source of gas	Region of supply
Commissioned before 2000				
Hazira -Vijaipur- Jagdishpur (HVJ)	GAIL	4435	Mumbai offshore, Cambay, Hazira LNG Terminal	Gujarat, Madhya Pradesh, Uttar Pradesh, Rajasthan, Delhi
Vijaipur- Dadri*	GAIL	247	Link to HVJ & DVPL	Madhya Pradesh, Rajasthan, Delhi, Uttar Pradesh
Assam (Lakwa)	GAIL	8	Assam gas fields	Assam
Tripura (Agartala)	GAIL	61	Tripura gas fields	Tripura
Ahmedabad	GAIL	144	Link to HVJ & DVPL	Gujarat
Rajasthan (Focus Energy)	GAIL	154	OIL fields	Rajasthan
Bharuch-Vadodara	GAIL	670	Link to HVJ & DVPL	Gujarat
Mumbai	GAIL	129	Link to HVJ & DVPL	Maharashtra
KG Basin	GAIL	877	KG basin	Andhra Pradesh
Cauvery Basin	GAIL	268	Cauvery Basin	Tamil Nadu
Assam Gas Company Duliajan-Numaligarh	AGCL	1000	Assam gas fields	Assam
Commissioned after 2000				
Dahej – Vijaypur*	GAIL	865	Dahej LNG Terminal	Gujarat, Madhya Pradesh
Dahej – Uran – Panvel including spur lines	GAIL	873	Dahej LNG Terminal	Gujarat, Maharashtra
Uran Trombay	ONGC	24	Bombay offshore	Maharashtra
East- West Pipeline	RGTEL	1469	KG basin	Andhra Pradesh, Maharashtra, Gujarat
GSPCL Network	GSPC	1874	Cambay Basin	Gujarat
Dadri -Panipat	IOCL	132	Link to Dahej, Hazira LNG Terminal	Delhi, Punjab
Chainsa-Jhajjar-Hissar	GAIL	262	Link to HVJ & DVPL	Rajasthan, Haryana
Dadri-Bawana-Nangal	GAIL	803	Link to HVJ & DVPL	Delhi, Punjab
Dabhol-Bangalore	GAIL	1004	RGPPPL LNG Terminal	Maharashtra, Goa, Karnataka
Kochi-Koottanad-Bangalore-Mangalore (Phase-I)	GAIL	41	Kochi LNG Terminal	Kerala, Karanataka
Total		15,340		
Source : MoPNG Annual Report 2013-14				

* These are Pipeline sections of DVPL-GREP Up-gradation (DVPL-2 & VDPL-Total length 1112 Km).

Annexure 5 (Referred to in Para no 3.3.1)

Map of India depicting present and future (targeted) Natural Gas pipelines in the country



Note: Map of India before formation of Telangana State.

Statement showing details of pipelines authorised by MoPNG

Sl No.	Section of pipeline	Entity	Date of authorisation	Date of 3 (1) notification	Scheduled date of completion	Source of gas	Anchor consumers	Status of pipelines as on 31.06.2014
1	Kakinada-Vijayavada-Nellore-Chennai	RGTIL/Relog	19.03.2007	17.06.2009	16.06.2012	KG D6	IFFCO- Nellore, MFL- Manali (Tamil Nadu) Industrial and CGD in Chennai	MoPNG cancelled authorisation in October 2012
2	Dabhol-Bangalore	GAIL	02.07.2007	06.02.2010	05.02.2013	R-LNG from Dabhol	Zuari-Goa	Dabhol to Bangalore, spur lines to Goa and Bangalore city commissioned in February 2013 (Phase-I) (Phase-II) Spurlines to Ratnagiri, Bijapur, Kolhapur, Dharwad, Devengere, Tumkur is in progress.
3	Chainsa-Jhajjar-Hissar	GAIL	06.07.2007	01.02.2008	31.01.2011	Link to existing HVJ-DVPL pipeline	Power plants of Reliance, Tata and Jindal.	Chainsa-Sultanpur (Phase-I), gas Charged in March 2010. Sultanpur-Jhajjar-Hissar, physical progress up to 17% (Phase-II)
4	Dadri-Bawana-Nangal	GAIL	11.07.2007	20.04.2009	19.04.2012	Link to existing HVJ-DVPL pipeline	NFL-Panipat NFL-Bhatinda NFL-Nangal	Dadri-Bawana, commissioned in January 2010 (Phase-I), Bawana-Nangal, gas charged in March 2012.
5	Jagdishpur-Haldia	GAIL	06.07.2007	NIL	NIL	R-LNG from Dahej/Hazira or NG from KG basin/ Mahanadi through Kakinada-Howrah	Fertilizer plants- DIL-Kanpur, MATIX-Burdwan, FCIL-Sindri, FCIL-Talcher, FCIL-Korba, FCIL-Gorakhpur, HFCL-Barauni, HFCL-Durgapur. Steel plants of SAIL in Bokaro, Durgapur, Rourkela Upcoming power projects of Calcutta Electric Supply Corporation and West Bengal Power Development Corporation.	Not yet commenced
6	Kochi-Kootanad-Bangalore-Mangalore	GAIL	13.07.2007	12.03.2010	11.03.2013	R-LNG from Kochi	MFCL-Mangalore FACT-Kochi BSES Kerala BPCL-Kochi	Kochi region (Phase-I, 41 Km) completed in September 2012, supply of gas commenced in August 2013 on completion of LNG terminal
7	Kakinada-Basudebpur-Howrah	RGTIL/Relog	15.07.2007	23.06.2009	22.06.2012	KG D6	HFCL-Haldia	FACT to Mangalore and Bangalore (Phase-II) physical progress 83%-Work in Tamilnadu (310 Km) suspended due to legal disputes, in Kerala (50 Kms). Slow progress due to RoU hindrance.
8	Chennai-Tuticorin	RGTIL/Relog	23.07.2007	19.08.2009	18.08.2012	KG D6	SPIC-Tuticorin	MoPNG cancelled authorization in October 2012
9	Chennai-Bangalore-Mangalore	RGTIL/Relog	23.07.2007	12.08.2009	11.08.2012	KG D6	CGD	

Annexure-7 (Referred to in Para 3.3.6)
Statement showing list of pipelines identified for development during 2000-2011

S.No	Pipeline Corridor	When identified	Present status
1	Dahej-Vijaypur	2000 under NGG	Completed
2	Dahej-Uran	2000 under NGG	Completed
3	Dadri-Panipat-Nangal	2000 under NGG, authorised in 2007	Completed
4	Vijaypur-Kota-Mathania	2000 under NGG	Vijaypur-Kota completed
5	Kakinada-Uran	2000 under NGG	East-West pipeline Completed
6	Kakinada-Chennai	2000 under NGG, authorised in 2007.	Not taken up
7	Kakinada-Kolkata	2000 under NGG, authorised as Kakinada-Howrah in 2007	Not taken up
8	Kolkata-Jagdishpur	2000 under NGG, authorised as Haldia-Jagdishpur in 2007	Not taken up
9	Dabhol-Bangalore-Chennai-Tuticorin	2000 under NGG Dabhol-Bangalore, authorised in 2007	Ongoing
		Chennai-Tuticorin authorised in 2007	
10	Kochi-Kayamkulam-Mangalore	2000 under NGG Kochi-Bangalore-Mangalore authorised in 2007	Ongoing*
11	Bangalore-Coimbatore-Kayamkulam		
12	Myanmar-Mizoram-Assam-Bihar	2000 under NGG	Not taken up
13	Hyderabad-Vijaypur	2000 under NGG	Not taken up
14	Vijaypur-Jagdishpur	2000 under NGG	Completed
15	Dahej-Jamnagar-Porbandar	2000 under NGG	Completed
16	Chainsa-Jhajjar-Hissar	Authorised in 2007	Ongoing
17	Chennai-Bangalore-Mangalore	Authorised in 2007	Not taken up
18	Vijaywada-Nagpur-Vijaipur	2009 under National Gas Highway, authorised as Mallavaram-Bhilwara in 2011	Ongoing
19	Barauni-Guwahati	2009 under National Gas Highway	Not taken up
20	Thane-Nashik-Nagpur	2009 under National Gas Highway	Not taken up
21	Raipur-Bhilai	2009 under National Gas Highway	Not taken up
22	Kota-Jaisalmar	2009 under National Gas Highway	Not taken up
23	Amritsar-Jammu	2009 under National Gas Highway Bhatinda-Srinagar authorised in 2011	Ongoing

Identified in 2000 : 15 projects
 Authorised in 2007 (Fresh) : Two projects
 Identified in 2009 : Six projects
 Total : 23 projects (seven completed, six on-going and 10 not yet taken up)

* Two pipelines at no. 10 and 11, Kochi-Kayamkulam segment linking PLL terminal and NTPC has not been taken up

Annexure-8 (Referred to in para no. 4.1)

Statement showing details of available production capacity, envisaged enhanced capacity, demand, domestic production and import of urea

(in lakh metric tonne)

Year (1)	Production capacity (2)	Envisaged enhanced capacity (3)	Projected Demand (4)	Domestic Production (5)	Import (6)	Requirement (7 = Col. 5+ Col. 6)
2004-05	197.00	N.A.	N.A.	202.39	6.41	208.80
2005-06	197.00	N.A.	N.A.	200.85	20.57	221.42
2006-07	197.00	N.A.	243.05	202.71	47.19	249.90
2007-08	197.00	N.A.	253.60	198.58	69.28	267.86
2008-09	197.00	N.A.	262.75	199.21	56.67	255.88
2009-10	197.00	224.20	271.35	211.12	52.09	263.21
2010-11	200.30	269.25	279.45	218.80	66.10	284.90
2011-12	200.30	269.25	287.55	219.84	78.34	298.18
2012-13	200.30	319.25	303.47	225.74	80.44	306.18
					477.09	

N.A.: Not Available

Annexure-9 (a) (Referred to in Para 4.1.1)

Statement showing calculation of Subsidy savings (in ₹)

S.N.	Particulars	Formula	2011-12	2012-13
1	Average normative rate per MT urea using RLNG	---	17103.54 ^{&}	23660.87 [@]
2	Average capital related charge/MT	---	5774.24	5774.24
3	Delivered cost of urea/MT	(Sl. No 1+2)	22877.78	29435.11
4	Subsidy payable on urea produced using RLNG	(Sl. No. 3 –MRP [^])	17567.78	24075.11
5	Subsidy on imported urea/per MT	-----	22306.00	24883.14
6	Excess subsidy on imported urea than domestic urea/MT)	(Sl. no. 5-4)	4738.22	808.03
7	Quantity of urea imported MT	Table Below	7513291 [*]	7947209 [*]
8	Subsidy savings envisaged (₹ in crore)	(Sl. No. 6 X 7)	3559.96	642.16
	Total for 2011-12 and 2012-13 (₹ in crore)			4202.12

& Column 4 of annexure 9 (b)

@ column 4 of annexure 9 (c)

[^] MRP ₹5310/MT and ₹ 5360/MT for 2011-12 and 2012-13 respectively

Sl no	Source	Particulars	2011-12	2012-13
1	Annexure 8	Import	7834000	8044000
2	Annexure 17 b	Loss of Production (MT)	87075	NIL
3	Annexure 21		48684	NIL
4	Annexure 22		32486	18552
5	Annexure 23		0	64558
6	Annexure 24		152464	13681
	Net {1- (2+3+4+5+6)}		*7513291	*7947209

Annexure--9 (b) (Referred to in Para 4.1.1)

Statement showing Normative cost per MT using R-LNG for year 2011-12

S. No	Unit [†]	Normative cost per MT* (₹)	Normative cost per MT using R-LNG ** (₹)
1	2	3	4
1	IFFCO Kalol	11327.00	17328
2	TCL	10346.00	15362
3	SFC	12812.00	20380
4	GSFC	11224.00	18830
5	IFFCO- P1	16164.00	20211
6	IFFCO- P2	15928.00	16739
7	KSFL	10059.00	15436
8	RCF Tr	12511.00	23604
9	RCF Thal	9970.00	17383
10	NFL-V2	10315.00	15335
11	NFL-V1	9959.00	14814
12	IGFL	12069.00	14570
13	CFCL-II	13327.00	16149
14	CFCL-I	11476.00	15349
15	KRIBHCO	8456.00	15063
Average rate (per MT urea) of 15 units		11729.53	17103.54

* Means Concession rate as worked out by FICC. This is for all the Gases/feedstock used by unit taken together.

** Worked out by Audit by substituting all gases/feedstock with R-LNG at the highest rate for that particular year (₹ 1933 R-LNG price for IFFCO Phulpur-II has been considered for all the units for the year 2011-12).

[†] Source; Escalation/De-escalation statement maintained by FICC

Annexure 9 (c) (Referred to in Para 4.1.1)
Statement showing Normative cost per MT using R-LNG for year 2012-13

Sl.No.	Unit	Normative Cost per MT (₹)	Normative Cost per MT using R-LNG (₹)
(1)	(2)	(3)	(4)
1	IFFCO Kalol	11802	23914.07
2	TCL	12079	21004.04
3	SFC	13506	28752.95
4	GSFC	11453	26000.53
5	IFFCO -P1	21196	27920.37
6	IFFCO-P2	21360	22950.65
7	KSFL	11000	21412.34
8	RCF Thal	11435	24275.24
9	NFL-V2	12251	21358.00
10	NFI-V1	11364	21091.10
11	IGFL	15530	20371.40
12	CFCL-II	16850	22084.58
13	CFCL-I	14860	21277.35
14	KRIBHCO	9735	21332.89
15	NFCL-I	9816	22021.18
16	NFCL-II	10077	22090.06
17	IFFCO Aonla-I	10987	20987.45
18	IFFCO Aonla-II	11028	20814.72
19	ZIL	41966	26938.53
20	GNVFC	23132	28567.49
21	NFL Panipat	32065	28029.55
22	NFL Bhatinda	31598	27344.64
Average Rate (per MT of Urea) of 22 units		16595	23660.87

Note: (1) RCF Trombay unit is not considered for computation as the normative cost of urea per MT using R-LNG is higher.

(2) Worked out by Audit by substituting all gases/feedstock with R-LNG at the highest rate for that particular year (₹ 2847.62 being R-LNG price for IFFCO Aonla has been considered for all the units for the year 2012-13).

Annexure-10 (Referred to in Para 4.1.2)

Statement showing details of conversion of urea units from Naphtha/FO/LSHS to Natural Gas and pipeline connectivity up to 2013-14

Sl. No.	Name of the Unit	Capacity (LMTPA)	Gas requirement after conversion (mmscmd)	Envisaged year of Conversion	Actual conversion	Pipeline Connectivity and entity	Planned date of completion for pipeline connectivity	Status of Pipeline Connectivity as on 31 March 2014
1	MCFL Manglore	3.800	1.00	2009-10	Not completed	Kochi-Banglore- Manglore - GAIL	2010-11	Not Yet Completed
2	DIL Kanpur (KFCL)	7.220	1.70	2009-10	2013-14	Spur line from Haldia- Jagdishpur-GAIL	2009-10	Not yet commenced
3	ZACL	3.993	1.28	2009-10	2012-13	Dabhol-Gogak-Banglore - GAIL	2009-10	Completed & gas charged in Feb-2013
4	NFL Bhatinda	5.115	0.90	2009-10	2012-13	Dahej-Dadri-Bawana -Nangal pipeline GAIL	2009-10	Completed & gas charged in Mar-2013
5	NFL Panipat	5.115	0.90	2009-10	2012-13	Dahej-Dadri-Bawana -Nangal pipeline- GAIL	2009-10	Completed & gas charged in Mar-2013
6	NFL Nangal	4.785	1.00	2009-10	2012-13	Dahej-Dadri-Bawana -Nangal pipeline -GAIL	2009-10	Completed & gas charged in March 2013
7	SPIC Tuticorin	6.200	1.66	2009-10	Not completed	Chennai-Tutikorin-Relogistic Infrastructures Limited (Subsidiary of RGTEL)	2009-10	GOI cancelled Authorisation
8	GNVFC Bharuch	6.360	0.95	2009-10	2012-13	Existing Hazira- Vijaipur- Jagdishpur -GAIL		
9	MFL, Manali	4.868	1.54	2009-10	Not Completed	Spur line from Kochi- Manglore-Banglore-GAIL	2009-10	Not yet completed

Annexure 11(a) (Referred to in Para no 4.1.2)**Statement showing Calculation of subsidy savings by using R-LNG in place of Naptha/LSHS/Fuel Oil (in ₹)**

SI no	Particulars	Year		
		2010-11	2011-12	2012-13
1	Average normative rate per MT urea using R-LNG	18224.57 [@]	22153.70 [#]	28688.72 ^{\$}
2	Average capital related charge per MT	2369.86	2369.86	2369.86
3	Delivered cost of urea per MT using R-LNG (1+2)	20594.43	24523.56	31058.58
4	Average cost of urea using Naphtha	28221.86 [^]	35987.71 ^{&}	42741.70 [*]
5	Difference in Cost of production ie Avoidable subsidy per MT (4 - 3)	7627.43	11464.15	11683.12
6	Quantity of urea produced using Naphtha (in MT)	3055330 [!]	3339090 ⁺	1297090 ^{#*}
7	Subsidy avoidable (₹ In crore) (5 X 6)	2330.43	3827.98	1515.41
	Total for 2010-11 to 2012-13 (₹ in crore)			7673.82

- @ column 8 of annexure 11 (b)
column 10 of annexure 11 (c)
\$ column 8 of annexure 11 (d)
^ column 5 of annexure 11 (b)
& column 5 of annexure 11 (c)
* column 5 of annexure 11 (d)
! column 6 of annexure 11 (b)
+ column 8 of annexure 11 (c)
#* column 6 of annexure 11 (d)

Annexure-11 (b) (Referred to in Para no 4.1.2)

Statement showing subsidy savings by using R-LNG for production of urea during 2010-11							
S. No	Unit	Energy norm (G'cal per MT)	Other Expenses per MT (₹)	Actual cost per MT (₹)	Actual production TMT	Feedstock cost per MT using R-LNG (₹)	Normative cost per MT using R-LNG (₹)
1	2	3	4	5	6	7 (Col.3X ₹1472 X 120%)*	8 (Col.4 + Col. 7)
1	ZIL	7.308	3058	29234	397.85	12909	15967
2	NFL-P	9.654	3076	24692	470.00	17053	20129
3	NFL-N	9.517	2940	25156	478.50	16811	19751
4	NFL-B	10.221	2816	25257	553.00	18054	20870
5	MCFL	7.356	2871	28392	379.50	12994	15865
6	SPIC	7.382	2947	31689	297.65	13040	15987
7	MFL	8.337	4277	33133	478.83	14726	19003
Average		8.54	3140.71	28221.86	--	15083.86	18224.57
Total					3055.33		

*R-LNG price of ₹ 1472 (which was the highest R-LNG basic price during 2010-11) plus 20 per cent (Other charges) per G'Cal are considered for calculation.

\$ GNVFC uses mixed feedstock of NG, LSHS, COAL etc. and DIL Kanpur suspended production. Hence these two units were not considered.

Annexure 11 (c) (Referred to in 4.1.2)

Statement showing subsidy savings by using R-LNG for production of urea during 2011-12									
S. No.	Unit Name	Actual cost of feedstock (₹)	Other expenses (₹)	Actual cost Per MT (₹)	Energy norms (G cal/MT)	Costs by using R-LNG			Total cost per MT (₹)
						Cost of R-LNG per G'Cal* (₹)	Actual Production (TMT)	Feedstock cost per MT by using R-LNG (₹)	
1	2	3	4	5(3+4)	6	7	8	9 (6X7)	10(4+9)
1	ZIL	34394.85	3060.15	37455	7.308	2222.95	365.47	16245.32	19305.47
2	NFL -P	27419.15	3109.85	30529	9.654	2222.95	500.36	21460.36	24570.21
3	NFL -N	30385.55	2962.45	33348	9.517	2222.95	503.58	21155.82	24118.27
4	NFL -B	31224.44	2846.56	34071	10.221	2222.95	483.02	22720.77	25567.33
5	MCFL	34366.19	2982.81	37349	7.356	2222.95	379.5	16352.02	19334.83
6	SPIC	34734.96	2949.04	37684	7.382	2222.95	620.41	16409.82	19358.86
7	MFL	37190.05	4287.95	41478	8.337	2222.95	486.75	18532.73	22820.68
	Total	229715.20	22198.81	251914	59.775	15560.65	3339.09	132876.80	155075.70
	Average cost of production	32816.50	3171.26	35987.71	8.53929	2222.95	477.012857	18982.40	22153.70

\$ GNI/FC uses mixed feedstock of NG, LSHS, COAL etc. and DIL Kampur suspended production. Hence these two units were not considered

*Cost per G'Cal is calculated based on R-LNG price of ₹ 1933 plus 15% other charges

Annexure – 11 (d) (Referred to in 4.1.2)
Statement showing subsidy savings by using R-LNG for production of urea during 2012-13

S. No	Unit	Energy norm (Gcal per MT)	Other Expenses per MT (₹)	Actual cost per MT (₹)	Actual production TMT	Feedstock cost per MT using R-LNG (₹)	Normative cost per MT using R-LNG (₹)
1	2	3	4	5	6	7 (Col.3X ₹ 2847.62 X 115%)*	8 (Col.4 + Col. 7)
1	MCFL	7.356	3046	41715	379.50	24089.16	27135.16
2	SPIC	7.382	3163	41000	481.82	24174.30	27337.30
3	MFL	8.337	4292	45510	435.77	27301.70	31593.70
Total				128225	1297.09	--	86066.16
Average				42741.70	--	--	28688.72

**R-LNG price of ₹ 2847.62 (which was the highest R-LNG basic price during 2012-13) plus 15 per cent (other charges) per G'Cal are considered for calculation.*

\$ ZIL unit uses mixed feedstock of NG, Naptha and FO. Hence not considered for calculation.

Annexure-12 (Referred to in Para 4.2)

Statement showing year wise capacity addition of gas based stations during last ten year ending March 2013

Plan Period	Year	Capacity at the end of the year (Mw)	Year wise capacity addition (MW)	Gas required (mmscmd)at 90% PLF	Average gas supplied (mmscmd)	Shortfall (mmscmd)
X plan (2002-07)	2002-03	9949.00	---	48.26	25.12	23.14
	2003-04	10154.90	205.90	49.25	25.62	23.63
	2004-05	10224.90	70.00	49.73	30.70	19.03
	2005-06	10919.62	694.72	53.38	35.37	18.01
	2006-07	12444.42	1524.80	61.18	35.10	26.08
	Total (a)			2495.42		
XI Plan Period (2007-12)	2007-08	13408.92	964.50	65.67	38.14	27.53
	2008-09	13599.62	190.70	66.61	37.45	29.16
	2009-10	15769.27	2169.65	78.09	55.46	22.63
	2010-11	16639.77	870.50	81.42	59.31	22.11
	2011-12	18381.00	1741.23	86.07 [#]	56.28	29.79
	Total (b)			5936.58		
	2012-13	20110.00	1729.00	135.00	40.00	50.70
	Total (c)			1729.00		
	Grand Total (a+b+c)			10161.00		

[#] Gas requirement is considered for the available capacity of 17721.47 MW only.

Statement showing status of supply of NG, liquid fuel, generation loss in power sector

Year	No of power stations	Installed capacity in MW	Generation in MUs	Gas requirement at 90% PLF (mmscmd)	Gas allotted (mmscmd)	Average gas supplied/consumed (mmscmd)	Naphtha used (KL)	FO used (KL)	Generation loss (Mu)
2008-09	46	13599.62	67398.65	66.61	N/A	37.45	1839812.53	297451.86	11994.98
2009-10	47	15769.27	92517.10	78.09	61.56	55.45	671220.52	194550.95	3237.43
2010-11	50	16639.77	97580.23	81.42	65.87	59.31	154100.73	8933.14	6394.67
2011-12	50	16926.27	92022.77	81.78	67.11	56.37	185288.42	225.60	10855.84
2012-13	55	18362.27	59910.90	90.70	81.73	40.00	285405.00	519.60	33646.18
Total							3135827.20	501681.15	66129.10
							(31.35 lakh KL)	(5.01 lakh KL)	

Annexure 14 ((Referred to in Para 4.2)
Statement Showing increase in cost of generation due to using Naphtha due to non-availability of R-LNG

Year	Cost of R-LNG* per MT with 9500 kCal (₹)	Cost of Naphtha # per MT (₹)	Cost of Power ^{**} per kWh		Increase in cost of power due to use of Naphtha instead of R-LNG (per kWh) (₹)	Quantity of Naphtha [@] used for power generation (KL)	Million Units (Million kWh) generated by using Naphtha (@ 0.01172304 Mu/KL) ^	Increase in generation cost (In million ₹)	₹ In Crore
			With R-LNG (₹)	With Naphtha (₹)					
1	2	3	4	5	6 (5-4)	7	8	9 (6 X 8)	10
2010-11	19488.35	37282.00	6.89	9.56	2.67	154100.73	1806.53	4823.43	482.34
2011-12	22079.22	48800.00	7.80	12.51	4.71	185288.42	2172.14	10230.78	1023.08
2012-13	31659.80	53792.00	11.19	13.79	2.60	285405.00	3345.81	8699.10	869.91
						624794.15	7324.49		2375.33

Assumption for Estimation

* Cost of R-LNG is worked out based on the landed cost of LNG as per the long term contract between PLL and Ras Gas

Cost of Naphtha is the Annual average of Refinery Transfer Price – IOCL

**

As per the Report of 'Expert Committee on Fuels for Power Generation' cost of power generation using LNG was ₹ 2.29/ kWh and that of Naphtha was ₹ 4.46/kWh in 2004-05. Generation cost is estimated for the subsequent years by apportioning the proportionate increase in fuel cost.

@ Data as per fuel consumption statement available with CEA

^ Based on the computation - 1 Kg Naphtha with 10500 kCal is equivalent to generation of 0.001163 kWh and one Litre of Naphtha = 0.96 Kg.

Statement showing capacity utilisation of major pipelines												
Sl. No.	NETWORK/REGION	Entity	Length Kms as on 31.03.2014	2011-12			2012-13			2013-14		
				Design Capacity (mmscmd)	Average Flow of gas (mmscmd)	Average % capacity utilization ^	Design Capacity (mmscmd)	Average Flow of gas (mmscmd)	Average % capacity utilization ^	Design Capacity (mmscmd)	Average Flow of gas (mmscmd)	Average % capacity utilization ^ (31.03.2014)
1	HVJ GREP -DVPL & Spur (Hazira - Vijaypur-Jagdishpur) HVJ+Vijaypur Dadri Pipeline	GAIL	4435	33	30.4	92	33	47.5	93	57.3	42.9	80.98
2	DVPL-GREP Upgradation (DVPL-2 & VDPL)	GAIL	1112	34	31.8	91	34	28	82	54	15.33	28.39
3	CHHAINSA- JHAJJAR -HISSAR P/L	GAIL	262	5	0.75	15	5	0.75	15	5	0.68	15
4	DAHEJ-URAN- PAINVEL(DUPL/ DPPL) including Spur Lines	GAIL	873	20	19.9	98	20	12.64	68.5	20	8.92	44.82
5	DADRI BAWANA NANGAL P/L, Dadri-Bawana: 106Km, Bawana - Nangal: 501 KM, Spur Line of BNP.L: 196 Km.	GAIL	803	11	*	35.5	11	1.43	13	11	2.40	21.81
6	DABHOL -BANGLORE- PIPELINE (including spur)	GAIL	1004	Commissioned in 2013-14			16	0.06	0	16	0.97	6.09
7	KOCHI-Kootanad-Banglore- Mangalore (Phase-1)	GAIL	41	Commissioned in 2013-14			Commissioned in 2013-14			6	0.31	5.21
8	ASSAM (Lakwa)	GAIL	8	2.5	0.60	25.2	2.5	0.58	23.2	2.5	0.55	22.0
9	TRIPURA (Agartala)	GAIL	61	2.3	1.46	64.8	2.3	1.45	64	2.3	1.46	64.4
10	AHMEDABAD	GAIL	144	3	0.45	15	3	0.41	14.1	3.0	0.38	13.0
11	RAJASTHAN (Focus Energy)	GAIL	154	2.35	0.84	36.0	2.35	0.75	31.8	2.35	1.09	46.5
12	BHARUCH, BADODARA (UNDERA) included R-LNG+ RIL	GAIL	670	15.4	11.2	73	15.4	2.94	19.1	15.4	2.25	14.6
13	MUMBAI	GAIL	129	24	12	50	24	22.9	95.4	24.0	22.9	95.4
14	KG BASIN (included R-LNG+ RIL)	GAIL	877	16	14.7	91.9	16	8.6	54	16.0	6.0	37.4

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15	CAUVERY BASIN	GAIL	268	9	3.42	35	9	3.2	37	9.0	3.57	41.22
16	EAST- WEST PIPE LINE (RGTL)	Reliance	1469	80	48.0	60	80	48	60	80.0	48.0	60
17	GSPCL Network including Spur Lines	GSPCL	1874	50	22	44	50	22	44	50.0	22.0	44
18	Assam Gas Company (Duliagan to Numaligarh)	AGC	1000	2	1.50	75	6	4.5	75	6.0	4.50	75
19	Dadri -Panipat	IOCL	132	0	0	0	11	2.63	28	9.5	3.11	32.8
20	Uran Trombay	ONGC	24	0	0	0	6	0	0	6.0	*	*
	Total		15340	309.55	199.02	64.29	346.55	208.34	60.11	395	187	47

* Data not available.

^ Average percentage capacity utilization is worked out by PAPC.

Source: PPAC

Statement showing sector-wise allocation of domestically produced Natural Gas

(Quantity in mmscmd)

Sl. No	Sector wise allocation of natural gas	Total
1	Fertilizer	55.08
2	Gas Based LPG plants for LPG extraction	6.88
3	Power	108.30
4	CGD (PNG, Transport)	10.19
5	Taj Trapezium Zone consumers	1.10
6	Small consumers having allocation less than 0.05 mmscmd	2.91
7	Steel	9.95
8	Refineries	14.93
9	Petrochemicals	12.73
10	Others (include Court-mandated customers other than CGD, internal consumption for pipeline)	14.72
	Total	236.79

Annexure-17 (a) (Referred to in Para 5.3.1)

Statement showing non-recovery of market price on APM gas consumed for other than production of urea									
2010-11									
Sl. No.	Name of Unit	NG consumed as per annual consumption report (mmbtu)	NG consumed for urea as allowed by FICC (mmbtu)	NG (APM) used for other purposes (mmbtu)	APM price charged (₹./G.cal)	APM price charged (₹/mmbtu)	Non APM Rate (₹/mmbtu) HVJ/DVPL price applicable	Differential price (₹)	Amount under-recovered (₹)
1	2	3	4	5 (Col. 3-col. 4)	6	7 (Col.6 X 25.2/100)	8	9 (Col. 8-Col. 7)	10 (Col. 5 X Col. 9)
1	KSFL	8474049	8317563	156486	684.20	172.42	234.25	61.83	9675529
2	CFCL-I	8571274	8215718	188246	702.00	176.90	234.25	57.35	10795908
3	CFCL-II		167310						
4	TCL	8492111	8473024	19087	685.67	172.79	234.25	61.46	1173087
Total									21644524
2011-12									
1	KSFL	7807241	7527722	279519	791.46	199.45	249.26	49.81	13922841
2	CFCL-I		7784873						
3	CFCL-II	8192795	261972	145950	790.85	199.29	249.26	49.97	7293122
4	IGFL	7903923	7748825	155098	718.21	180.99	249.26	68.27	10588540
Total									31804503
Grand total (2.16 + 3.18)									5.34 crore

Source:

1. Escalation/De-Escalation Statement prepared by FICC (DOF) for calculating subsidy payable on urea.
2. Details of Allocation and consumption of feedstock as furnished by fertilizer units to FICC.

Statement showing loss of production of urea on account of non-utilisation of APM gas for specified purpose with resultant subsidy outgo

	Particulars	2010-11			2011-12		
		KSFL	CFCL-I & II	TCL	KSFL	CFCL I & II	IGFL
1	Available production capacity (MT)	1030500	2100200	1116700	1164600	2146000	1162200
2	Urea production during the period (MT)	909810	1845690	957330	909810	1845690	990000
3	Capacity utilisation in <i>per cent</i>	88	88	86	78	86	85
4	NG consumed for Urea (mmbtu)	8317563	8383027	8473024	7527722	8046845	7748825
5	Urea (MT)/NG (mmbtu)	0.109384203	0.220169874	0.112985635	0.120861265	0.229368156	0.127761306
6	NG not used for Urea (mmbtu)	156485	188246	19087	279518	145950	155097
7	Production loss of urea (5X6) in MT	17117	41446	2157	33783	33476	19815
8	Cost of production of urea/MT in ₹	9098	10861	9392	10059	12401	12069
9	MRP of urea/MT in ₹	5310	5310	5310	5310	5310	5310
10	Subsidy on urea in ₹/MT (8-9)	3788	5551	4082	4749	7091	6759
11	Subsidy on imported urea in ₹/MT	14000	14000	14000	22306	22306	22306
12	Differential subsidy in ₹/MT (11-10)	10212	8449	9918	17557	15215	15547
13	Avoidable subsidy (₹ in crore) (7 X 12)	17.48	35.02	2.14	59.31	50.93	30.81

Source: Annexure 17 a, Escalation de-escalation statement from FICC, Annexure 9 (a)

	2010-11	2011-12	Total
Loss of production in MT	60720	87074	147794
Average differential subsidy ₹	8998	16199	--
Total differential subsidy (₹ in crore)	55	141	196

Annexure-18 (Referred to in Para 5.3.2)

Statement showing list of shareholders of APGPCL and share of power supplied to them

Sl. No	Shareholder	Equity Participation- No. of shares in crore (%)	Corresponding Share of electricity (%)	Share in Electricity (MW)
1	APTRANSCO (State Electricity utility)	15758427 (21.62 %)	21.62	58.80
2	Public Sector Undertakings	14568517 (19.99%)	19.99	54.36
3	Private Sector	42569245 (58.39%)	58.39	158.84
	Total	72896189	100	272.00

Annexure-19 (Referred to in Para 5.3.3)

Statement showing List of small scale consumers and market rate (non-APM) pending recovery from such consumers

Sl. No	Customer	Amount pending recovery (₹ in crore)
1	Gopal Glass Works Ltd.	5.88
2	Bajrang Refractories Private Ltd.	0.13
3	J P Chemicals.	0.86
4	Jalaram Ceramics Ltd.	1.80
5	Nahar Colours and Coating Ltd.	1.09
6	Spire cera frit Private Ltd.	0.92
7	Somany Ceramics Ltd.	8.30
8	Bhavani Chemicals.	1.92
9	Ajita Silchen Private Ltd.	2.63
10	Akik Tiles Private Ltd.	5.45
11	Bisazza India Private Ltd.	2.59
12	Akash Ceramics Private Ltd.	1.93
13	Sterling Ceramics Private Ltd.	5.69
14	Victory Ceratech Private Ltd.	2.15
15	Swastik Sanitarywares Ltd.	0.44
16	Pioneer Industries.	0.07
17	Ashok Ceracon Private Ltd.	0.13
18	Mahek Glazes Private Ltd.	1.03
	Total	43.01

Annexure 20 (Referred to in Para 5.4)

Statement showing loss of production and excess subsidy payment on imported Urea

Sl. No	Fertilizer unit/ (NG source)	Quantity of NG underutilized in mmscmd/ Period	Loss of production of urea (LMT)	Excess subsidy paid (₹ in crore)	Reference
	1	BVFCL (APM)	Ranging between 0.30 and 0.27 (2008-09 and 2011-12)	1.09	
2	NFCL (KG D6 and JV)	0.001 to 0.148 (July 2011 to March 2013)	0.51	98.04	Annexure-22
3	NFL (APM)	0.01 to 0.61 (April to December 2012)	0.65	139.63	Annexure- 23
4	KRIBHCO (APM)	0.01 to 1.16 (July 2011 to October 2012)	1.66	340.45	Annexure- 24
5	GSFC	0.034 (11 Months in 2011-13)	Increase in cost of production	3.23	Annexure- 25 (a) & 25 (b)
Total				₹ 637.07	

Statement showing excess subsidy payment owing to production loss of urea due to short lifting of NG by BVFCL during 2008-09 and 2011-12

Year of allocation	contracted quantity of gas	Mutually agreed billed quantity	Consumption per day considering 300 on-stream days per year (as per FICC norm)	Less consumed	Production loss due to short consumption as confirmed by BVFCL	Excess of subsidy per TMT	Total Excess subsidy
	<i>mmscmd</i>	<i>mmscm</i>	<i>mmscmd</i>	<i>mmscmd</i>	<i>MT</i>	<i>(₹ in lakh)</i>	<i>(₹ in lakh)</i>
1	2	3	4 (3/300)	5 (2-4)	6	7	8 (6 X 7/1000)
2008-09	1.72	426.57	1.42	0.30	61044.00	40.28	2458.85
2011-12	1.72	434.10	1.45	0.27	48684.00	63.95	3113.34
			Total		109728.00		5572.19
					1.09 LMT		₹ 55.72 crore

Annexure-22 (Referred to in Para 5.4)

Statement showing production loss due to low off take of NG by Nagarjuna Fertilizers and Chemicals Ltd, I & II Units, Kakinada with resultant extra payment of subsidy during 2011-12 (July 11 to March 12)											
Month	Type of gas	Actual Supply (scm)	Actual Consumption	Short consumption in month (3-4) scm	Short consumption Per day (Col. 5 / (Days in month x10 lakh)) MMSCMD	Per day Production loss (Col.6 X 1.3399) TMT	Production loss for the month (Col.7 X Days in month) TMT	Subsidy payable to NFCL per TMT (₹.9341.88-₹.5310) x1000 (₹)	Subsidy paid on imports per TMT(₹)	Excess subsidy paid per TMT (₹) (Col.10-Col.9)	Total extra subsidy paid(₹) (Col.8 X Col.11)
1	2	3	4	5	6	7	8	9	10	11	12
Jul'11	RIL	50685502	48978557	1706945	0.0551	0.0738	2.2871	4031880	22306000	18274120	41794740
Aug'11	RIL	52108634	47735575	4373059	0.1411	0.1890	5.8595	4031880	22306000	18274120	107077206
Sep' 11	JV(Non APM NG)	5477825	5114431	363394	0.0121	0.0162	0.4869	4031880	22306000	18274120	8897669
	RIL	48412544	46339557	2072987	0.0691	0.0926	2.7776	4031880	22306000	18274120	50758196
Oct'11	JV(Non APM NG)	7467083	7094162	372921	0.0120	0.0161	0.4997	4031880	22306000	18274120	9131578
	RIL	50074255	48839982	1234273	0.0398	0.0533	1.6538	4031880	22306000	18274120	30221740
Nov' 11	JV(Non APM NG)	4230631	3634515	596116	0.0199	0.0266	0.7987	4031880	22306000	18274120	14595540
	RIL	48420155	43989498	4430657	0.1477	0.1979	5.9366	4031880	22306000	18274120	108486141
Dec' 11	JV(Non APM NG)	5516370	5007294	509076	0.0164	0.0220	0.6821	4031880	22306000	18274120	12464777
	RIL	50186700	49877781	308919	0.0100	0.0134	0.4139	4031880	22306000	18274120	7563658
Jan' 12	JV(Non APM NG)	4452288	3887057	565231	0.0182	0.0244	0.7574	4031880	22306000	18274120	13840818
	RIL	50310305	46231367	4078938	0.1316	0.1763	5.4654	4031880	22306000	18274120	99875375
Feb' 12	JV(Non APM NG)	5125706	4722081	403625	0.0144	0.0193	0.5408	4031880	22306000	18274120	9882644
	RIL	48911364	48182900	728464	0.0260	0.0349	0.9761	4031880	22306000	18274120	17837369
Mar' 12	JV(Non APM NG)	4176741	3723364	453377	0.0146	0.0196	0.6075	4031880	22306000	18274120	11101528
	RIL	53873270	51826113	2047157	0.0660	0.0885	2.7430	4031880	22306000	18274120	50125911
Total (a)							32.48 TMT				59,36 crore

Continued...

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Statement showing production loss due to low off take of NG by Nagarjuna Fertilizers and Chemicals Ltd, I & II Units, Kakinada with resultant extra payment of subsidy during 2012-13 (April to March)

Month	Type of gas	Actual Supply (scm)	Actual Consumption	Short consumption in month (3-4) MMSCM	Short consumption Per day (Col. 5 / Days in month x10 lakh) MMSCMD	Per day Production loss (Col.6 X 1.3399) TMT	Production loss for the month (Col.7 X Days in month) TMT	Subsidy payable to NFCL per TMT (₹ 9341.88- ₹ 5310) x1000 (₹)	Subsidy paid on imports per TMT(₹)	Excess subsidy paid per TMT (₹) (Col.10- Col.9)	Total extra subsidy paid(₹) (Col.8 X Col.11)
1	2	3	4	5	6	7	8	9	10	11	12
Apr	JV(Non APM)	3164817	2646306	518511	0.0172837	0.02315843	0.694752889	4031880	24883140	20851260	14486473
	RIL	52079435	49556331	2523104	0.084103467	0.112690235	3.38070705	4031880	24883140	20851260	70492002
May	JV(Non APM)	5474752	4695215	79537	0.025146355	0.033693601	1.044501626	4031880	24883140	20851260	21779175
	RIL	53062193	51431117	1631076	0.052615355	0.070499314	2.185478732	4031880	24883140	20851260	45569985
June	JV(Non APM)	4972833	4339503	633330	0.021111	0.028286629	0.848598867	4031880	24883140	20851260	17694356
	RIL	48696738	48020396	676342	0.022544733	0.030207688	0.906230646	4031880	24883140	20851260	18896051
Jul	JV(Non APM)	7791165	6993260	797905	0.025738871	0.034487513	1.06911291	4031880	24883140	20851260	22292351
	RIL	53130003	51895537	1234466	0.039821484	0.053356806	1.654060993	4031880	24883140	20851260	34489256
Aug	JV(Non APM)	7585078	7010962	574116	0.018519871	0.024814775	0.769258028	4031880	24883140	20851260	16039999
	RIL	49868630	49120028	748602	0.024148452	0.032355651	1.00305182	4031880	24883140	20851260	20914894
Sep	JV(Non APM)	6858738	6389000	469738	0.015657933	0.020980065	0.629401946	4031880	24883140	20851260	13123824
	RIL	48055359	47579774	475585	0.015852833	0.021241211	0.637236342	4031880	24883140	20851260	13287181
Oct	JV(Non APM)	7450422	7052454	397968	0.012837677	0.017201204	0.533237323	4031880	24883140	20851260	11118670
	RIL	50798499	50152694	645805	0.020832419	0.027913359	0.86531412	4031880	24883140	20851260	18042890
Nov	JV(Non APM)	7004050	6902514	101536	0.003384533	0.004534936	0.136048086	4031880	24883140	20851260	2836774
	RIL	50044271	497182206	326065	0.010868833	0.01456315	0.436894494	4031880	24883140	20851260	9109801
Dec	JV(Non APM)	7704675	7687411	17264	0.000556903	0.000746195	0.023132034	4031880	24883140	20851260	482332
	RIL	51562754	51010243	552511	0.017822935	0.023880951	0.740309489	4031880	24883140	20851260	15436386
Jan	JV(Non APM)	7847385	7566383	281002	0.009064581	0.012145632	0.37651458	4031880	24883140	20851260	7850803
	RIL	51024520	50859774	164746	0.005314387	0.007120747	0.220743165	4031880	24883140	20851260	4602773
Feb	JV(Non APM)	7310832	7193957	116875	0.003770161	0.005051639	0.156600813	4031880	24883140	20851260	3265324
Mar	JV(Non APM)	7696452	7516573	179879	0.005802548	0.007774835	0.241019872	4031880	24883140	20851260	5025568
Total (b)											38.68 crore
Grand total											98.04 crore

Production loss per mmscmd=1.3399TMT per day (Targeted production 15.65 LMTPA / NG required 3.2 mmscmd/365 days in the year)

Note: As the actuals of subsidy paid and escalation statements of FICCI for 2012-13 were not available, the normative cost of production and the subsidy paid on import of urea during the year 2011-12 were considered for calculations.

Annexure 23 (Referred to in Para 5.4)
Statement showing loss of production of urea during 2012-13 (April to December 12) due to underutilisation of APM gas in respect of Vijayapur-I & II Units of National Fertilizers Limited and consequent extra payment of subsidy

Month	Allocation per month (mmscmd)	Actual Supply (mmscmd)	Actual consumption (mmscmd)	Short consumption in month (mmscmd)	Short consumption Per day (col 5 / Days in month) (mmscmd)	Per day Production loss (6 X 1.3215) TMT	Production loss for the month (col 7 X Days in month) TMT
1	2	3	4	5	6	7	8
Apr-12	67.2000	41.8300	30.1660	11.6640	0.3888	0.5138	15.4140
May-12	69.4400	64.4700	58.7240	5.7460	0.1854	0.2449	7.5919
Jun-12	67.2000	45.2800	37.1770	8.1030	0.2701	0.3569	10.7070
Jul-12	69.4400	59.3300	40.3480	18.9820	0.6123	0.8092	25.0852
Aug-12	69.4400	60.2200	58.6650	1.5550	0.0502	0.0663	2.0553
Sep-12	67.2000	57.3000	56.8210	0.4790	0.0160	0.0211	0.6330
Oct-12	69.4400	60.2900	59.8700	0.4200	0.0135	0.0178	0.5518
Nov-12	67.2000	58.7800	57.8490	0.9310	0.0310	0.0410	1.2300
Dec-12	69.4400	56.0000	55.0240	0.9760	0.0315	0.0416	1.2896
Total	616.0000	503.5000	454.6440	48.8560	1.5988	2.1128	64.5578
							0.65 LMT

Extra subsidy calculation

Details of cost, MRP and subsidy paid on urea	In ₹
1. Normative rate of urea per MT	8564.00
2. MRP of urea	5310.00
3. Subsidy per MT (1-2)	3254.00
4. Subsidy on Import per MT	24883.14
5. Difference (subsidy savings) (4-3)	21629.14
Excess subsidy (21629.14 X 64.5578 X 1000)	₹ 1396329694

Say ₹ 139.63 crore

Note: As the actuals of subsidy paid and escalation statements of FICC for 2012-13 were not available, the normative cost of production and the subsidy paid on import of urea during the year 2011-12 were considered for calculations.

Annexure-24 (Referred to in Para 5.4)
Statement showing production loss in KRIBHCO during 2011-12 & 2012-13 (July 2011 to October 2012) due to non-utilization of APM Gas and consequent extra payment of subsidy

Month	Actual availability of APM gas (Total mmscmd in month*)	Actual Consumption (Total mmscmd in month*)	Short consumption in month (Total mmscmd in month*)	Short consumption Per day (Col.4/ Days in month) mmscmd	Per day Production loss (Col.5 X 1.2254) TMT	Production loss for the month (Col.6 X Days in month) TMT	Subsidy payable to KRIBHCO per TMT (₹ 7338- MRP ₹ 5310)x1000 (₹)	Subsidy paid on imports per TMT(₹)	Excess subsidy paid per TMT (₹)	Total extra subsidy paid(₹)
1	2	3	4 (Col. 2-Col. 3)	5	6	7	8	9	10 (Col. 9 -Col. 8)	11 (Col. 10 X Col. 7)
2011-12										
Jul-11	55.00	54.50	0.50	0.01613	0.01976	0.61256	2028000	22306000	20278000	12421492
Sep-11	60.30	53.10	7.20	0.24000	0.29410	8.82300	2028000	22306000	20278000	178912794
Oct-11	52.70	36.20	16.50	0.53226	0.65223	20.21913	2028000	22306000	20278000	410003518
Dec-11	50.30	25.00	25.30	0.81613	1.00008	31.00248	2028000	22306000	20278000	628668289
Jan-12	54.36	45.44	8.92	0.28774	0.35260	10.93060	2028000	22306000	20278000	221650707
Feb-12	55.10	21.57	33.53	1.15621	1.41682	41.08778	2028000	22306000	20278000	833178003
Mar-12	71.44	38.97	32.47	1.04742	1.28351	39.78881	2028000	22306000	20278000	806837489
Sub-total						152.46432				3091672292
2012-13										
Apr-12	62.30	57.33	4.97	0.16567	0.20301	6.09030	2028000	24883140	22855140	139194659
Aug-12	54.82	54.65	0.17	0.00548	0.00672	0.20832	2028000	24883140	22855140	4761183
Oct-12	54.93	48.90	6.03	0.19452	0.23836	7.38916	2028000	24883140	22855140	168880286
Sub-total						13.68106				312836128
Grand Total						166.14538				3404508420

Say ₹ 340.45 crore

During these 10 months in 2011-12 and 2012-13, there was low off-take of APM gas.

** Total mmscmd in month is the sum of mmscmd of each day in that month.*

Note: As the actuals of subsidy paid and escalation statements of FICC for 2012-13 were not available, the normative cost of production and the subsidy paid on import of urea during the year 2011-12 were considered for calculations.

Annexure-25 (a) (Referred to in Para 5.4)
Statement showing low off-take of cheaper gas by GSFC and extra expenditure on account of utilisation of costlier gas during the period May 2011 to March 2013)

Month	Capacity of Urea (MT)	Production (MT)	Feedstock	Availability (MT) or (Scm)	Price (₹)/ Unit	Consumption (MT) or (SCM)	Under Consumption SCM (col.5-col.7)	Difference in rate	Extra cost on feedstock (₹)
May	34813	26510	HP APM (SM3)	14840000	8.27	14542032	297968	16.48 – 8.27	2446317
			PMT-APM(SM3)	2740646	8.27	2564215	176431	16.48 – 8.27	1448499
			PMT-PSC	1808557	11.03	1642483	166074	16.48 – 11.03	905103
			R-LNG(SM3)	10026710	16.48	2462025	--	--	--
Jul	34813	21960	LP APM (SM3)	4443783	7.80	4443095	688	16.91 – 7.80	6268
			PMT-APM	2757338	8.33	2749921	7417	16.91 – 8.33	63638
			PMT-PSC(SM3)	1829391	10.87	1657640	171751	16.91 – 10.87	1037376
			R-LNG(SM3)	23028577	16.91	3135048	--	--	--
Sep	33690	4404	LP APM (SM3)	3768406	7.98	3521797	246609	10.30 – 7.98	572133
			RIL(GSPL)	316949	10.30	316949	--	--	--
Oct	34813	28250	LP APM (SM3)	3878209	8.44	3875906	2303	19.52 – 8.44	25517
			PMT-APM	2660073	8.76	2627628	32445	19.52 – 8.76	349108
			PMT-PSC(SM3)	1740475	11.85	1628425	112050	19.52 – 11.85	859424
			R-LNG(SM3)	20810838	19.52	7239947	--	--	--
Feb	32567	32855	LP APM (SM3)	3183387	8.66	3179344	4043	21.24 – 8.66	50861
			ONGC Non-APM(SM3)	4296000	16.32	4128268	167732	21.24 – 16.32	825241
			R-LNG(SM3)	14340816	21.24	2126273	--	--	--
Mar	34813	30471	LP APM (SM3)	4860702	8.69	4394031	466671	22.13 – 8.69	6272058
			PMT-APM(SM3)	2518085	9.11	2465755	52330	22.13 – 9.11	681337
			PMT-PSC	1697298	12.35	1419848	82770	22.13 – 12.35	809490
			ONGC Non-APM(SM3)	4208000	16.00	1926783	--	--	--
			R-LNG(SM3)	15860188	22.13	601771	--	--	--
			Total (a) ₹						9349569

From April 2012 to March 2013									
Month	Capacity of Urea (MT)	Production (MT)	Feedstock	Availability (MT) or (Sem)	Price (₹)/ Unit	Consumption (MT) or (SCM)	Under Consumption SCM (col.5-col.7)	Difference in rate	Extra cost on feedstock (₹)
1	2	3	4	5	6	7	8	9	10 (col 8 X col 9)
April	33690	29859	LP APM (SM3)	3806667	8.97	3802875	3792	23.57 – 8.97	55363
			ONGC Non-APM	4607000	16.29	3880174	726826	23.57 – 16.29	5291293
			R-LNG(SM3)	13725590	23.57	1325900	--	--	--
May	34813	30574	LP APM (SM3)	3876733	9.12	3872094	4639	25.69 – 9.12	76868
			ONGC Non-APM	5438000	16.59	4864221	573779	25.69 – 16.59	5221389
			R-LNG(SM3)	14668479	25.69	2479095	--	--	--
Sept	33690	24672	HP APM (SM3)	14050000	10.07	13914532	135468	27.35 – 10.07	2340887
			LP APM (SM3)	4085299	9.54	4079281	6018	27.35 – 9.54	107181
			PMT-APM(SM3)	2109242	10.07	1965527	143715	27.35 – 10.07	2483395
			PMT-PSC(SM3)	1385261	12.96	1290818	94443	27.35 – 12.96	1359035
			ONGC Non-APM	5553000	13.55	3643955	142293 ^Ω	27.35 – 13.55	1963643
			R-LNG(SM3)	13945455	27.35	521937	--	--	--
Oct	34813	30021	LP APM (SM3)	3292128	9.44	3289625	2503	27.27 – 9.44	44628
			ONGC Non-APM(SM3)	6200000	13.35	6127237	72763	27.27 – 13.35	1012861
			R-LNG(SM3)	15724408	27.27	1365063	--	--	--
Feb	31444	26486	LP APM (SM3)	3257866	9.28	3255575	2291	29.56 – 9.28	46461
			ONGC Non-APM	5411000	13.3	5227892	183108	29.56 – 9.28	2977336
			R-LNG(SM3)	13726868	29.56	4935148	--	--	--
			Total (b) ₹						22980340
			Total (a + b) ₹						32329909
								₹ in crore	3.23

^Ω limited to 521937 utilised at the highest rate of 27.35

Annexure-26 (Referred to in Para 5.5)

Statement showing marketing margin paid to the Contractor in excess of marketing margin allowed to GAIL									
Year	NG in mmbtu/mscm	Marketing margin payable to contractor / mmbtu	Average KG D6 gas supplied (mscm)	Marketing margin charged /mscm	USD exchange rate in ₹	Marketing margin charged for KG D6 gas Per mscm	Subsidy impact on KG D6 gas	Marketing margin if rate allowed to GAIL is charged (₹/mscm)	Excess Marketing margin over & above the rate applicable to GAIL (₹/mscm)
1	2	3	4	5	6	7	8	9	10
	mmbtu (1000 scm/25.2*)	USD	(15 mmscmd X 365 days)/ 1000)	USD	₹	₹	₹ in lakh	(₹ 200 X mscm) ₹ in lakh	(Col. 8 - Col. 9)
2009-10	39.6825	0.135	5018750 ^Ω	5.36	47.42	254.17	12,756.16	10,037.50	2,718.66
2010-11	39.6825	0.135	5475000	5.36	45.58	244.31	13,375.97	10,950.00	2,425.97
2011-12	39.6825	0.135	5475000	5.36	47.92	256.85	14,062.54	10,950.00	3,112.54
2012-13	39.6825	0.135	5475000	5.36	54.39	291.53	15,961.27	10,950.00	5,011.27
2013-14	39.6825	0.135	5475000	5.36	60.73	325.51	17,821.67	10,950.00	6,871.67
Total								20,140.11	

Say ₹ 201.40 crore

*25.2 scm equals to one mmbtu
Ω less than 365 days