

Assumption :		
Netting/Trading prices have been kept the same for the same zone.		
XYZ Transporter		
Zone 1 Transportation Tariff	20	Rs./MMBtu
Zone 2 Transportation Tariff	28	Rs./MMBtu
Imbalance Management Services Charges		
Parking / Lending Charge Zone 1	5	Rs./MMBtu
Parking / Lending Charge Zone 2	7	Rs./MMBtu
Netting & Trading Zone 1	5	Rs./MMBtu
Netting & Trading Zone 2	7	Rs./MMBtu
MN Transporter		
Netting and trading charges zone 1	10	Rs./MMBtu
Zone 1 Transportation Tariff	40	Rs./MMBtu
Parking Lending for zone 1	10	Rs./MMBtu
Shipper A		
Plant X	GTA1	
Plant Y	GTA2	
Shipper B		
Plant Z	GTA3	
Gas Price	280	Rs./MMbtu
OBA Charges		
XYZ Transporter		
Under OBA		
XYZ Transporter OBA Charges		
OBA Charges Zone 1	5	Rs./MMBtu
OBA Charges Zone 2	7	Rs./MMBtu
MN Transporter OBA Charges		
OBA Charges Zone 1	10	RS /MMBtu

Annexure 3 a

Parking Charges				
	Qty in Mmbtu			Rs.
	In quantity	Out Quantity	Parked Qty	Parking Charges
Day 1	1000	0	1000	5000
Day 2	2000	500	2500	12500
Day 1	1500	3000	1000	5000
Day 3	1000	1000	1000	5000
Day 4	500	200	1300	6500
Day 5	1200	1500	1000	5000
Day 6	500	1000	500	2500
Day 7	0	500	0	0
Total Parking Charges			8300	41500

Annexure 3 b						
Parking \ Lending in Same Zone						
			Mmbtu	Rs	Mmbtu	Rs
	In quantity	Out Quantity	Parked Qty	Parking Charges	Lending Qty	Lending Charges
Day 1	1000	0	1000	5000	0	0
Day 2	2000	500	2500	12500	0	0
Day 1	1500	4500	0	0	500	2500
Day 3	1000	1000	0	0	0	0
Day 4	500	700	0	0	200	1000
Day 5	2000	1500	500	2500	0	0
Day 6	500	1000	0	0	0	0
Day 7	700	700	0	0	0	0
Total			4000	20000	700	3500

Quantity as per the Parking and Lending Agreement

Parking \ Lending in different Zone										
			Mmbtu	Mmbtu	Mmbtu	Rs	Mmbtu	Mmbtu	Mmbtu	Rs
	In quantity	Out Quantity	Parked Qty	PQ Zone1	PQ Zone 2	Parking Charges	Lending Qty	LQ Zone 1	LQ Zone 2	Lending Charges
Day 1	1000	0	1000	400	600	6200	0			0
Day 2	2000	500	2500	1000	1500	15500	0			0
Day 1	1500	4500	0		0	0	500	100	400	3300
Day 3	1000	1000	0		0	0	0			0
Day 4	500	700	0		0	0	200	50	150	1300
Day 5	2000	1500	500	100	400	3300	0	0	0	0
Day 6	500	1000	0		0	0	0			0
Day 7	700	700	0		0	0	0			0
Total			4000	1500	2500	25000	700	150	550	4600
Total Revenue from Parking and Lending						29600				

Annexure 3 c

Netting			Imbalance Charges	
	Positive	Negative	XYZ transporter	
Shipper A	MMBtu	MMBtu	Rs.	
Plant X	200		2000	
Plant Y		300	3000	
			5000	...(1)
Shipper B				
Plant Z	100		1000	
Total Imbalance Charges			1000	...(2)
Total Imbalance Charges for Escrow Account/Non Offending Shippers			6000	... (3)=(1)+(2)
Netting Services Both Plant in same Tariff Zone XYZ transporter				
Shipper A	Zone 1	Zone 1		
Plant X	200		0	
Plant Y		300	0	
Net Imbalance Qty		100		
Total Imbalance Charges for Escrow Account/ Non Offending Shippers			1000	...(4)
Netting Charges to Transporter			2000	...(5)
Total Payout of Shipper A			3000	...(6)=(4)+(5)
Saving for Shipper A			2000	...(7)=(1)-(6)
Netting Services Both Plant in different Tariff Zone				
Shipper A	Zone 1	Zone 2		
Plant X	200			
Plant Y		300		
Net Imbalance Qty		100		
Imbalance charges			1400	...zone 2 tariff @50%
Total Imbalance Charges for Escrow Account/Non Offending Shipper after netting			1400	...(8)
Total Imbalance Charges for Escrow Account/non offending shippers without netting			6200	...(9)
Imbalance Management Service Charges			2400	...(10)
Total Payout of Shipper A			3800	...(11)=(8)+9)
Saving for Shipper A (39%)			2400(12)=(9)-(11)

Annexure 3 d

Trading			
	Positive	Negative	Imbalance Charges
	Zone 1	Zone 1	
Shipper A	MMBtu	MMBtu	Rs.
Plant X	200		2000
Plant Y		300	3000
Total Payout of Shipper A			5000 ... (1)
Shipper B			
Plant Z	100		1000
Total Payout of Shipper B			1000 ... (2)
Total Imbalance Charges for Escrow Account/Non Offending Shippers			6000 ... (3)
Netting Services Both Plant in same Tariff Zone			
Shipper A	Zone 1	Zone 1	
Plant X	200		
Plant Y		300	
Net Imbalance Qty of Shipper A for Plant Y		100	
Trading Services Both Plant in same Tariff Zone			
Shipper A			
Plant Y (After netting)		100	
Shipper B		Zone 1	
Plant Z		100	
Imbalance after Trading	0	0	
Total Imbalance Charges for Escrow Account/Non Offending Shippers			0 ... (4)
Imbalance Management Service Charges to Transporter for Netting services-same zone			2000 ... (5)
Imbalance Management Service Charges to Transporter for Trading services-same zone			1000 ... (6)
Total Payout of Shipper A			2500 ... (7)
Total Payout of Shipper B			500 ... (8)
Saving for Shipper A (50%)			2500 ... (9)=(1)-(7)
Saving for Shipper B (50%)			500 ... (10)=(2)-(8)
Netting and Trading Services Both Plant in different Tariff Zone			
Shipper A	Zone 1	Zone 2	
Plant X (Mmbtu)	200	300	
Plant Y (Mmbtu)			
Imbalance Charges (Rs)			6200 ... (11)
Netting Services			
Shipper A			
Plant X (Mmbtu)	200	300	
Plant Y (Mmbtu)		100	
Net Imbalance Qty (Mmbtu)			
Shipper B			
Plant Z (Mmbtu)	100		
Imbalance charges (Rs)			1000
Nett Imbalance Qty after Trading of Imbalance between Plant Y and Z			
Imbalance Qty after N&T			
Shipper A	0	0	
Shipper B			
Total Imbalance Charges for Escrow Account/Non Offending Shippers			0
Imbalance Management Service Charges to Transporter for Netting services			2400 ... (12)
Imbalance Management Service Charges to Transporter for Trading services			1200 ... (13)
Total Imbalance Service Charges to Transporter			3600 ... (14)=(12)+(13)
Total Imbalance Charges for Escrow Account/Non Offending Shipper			0
Total Payout of Shipper A			3100 ... (15)
Total Payout of Shipper B			500 ... (16)
Saving for Shipper A (50%)			3100
Saving for Shipper B (50%)			500

Annexure 3 e	Operational Balancing Agreement						
	Shipper	Network Used	Imbalance Qty (Mmbtu)	Type of Imbalance	Imbalance Charges (Rs)	Zone 1 Scheduled Drawal at Exit point (m(mmbtumbt	Zone 1 Actual quantity
Without OBA	Shipper A	XYZ Tranporter	100	Positive	1000	200	100
	Shipper A	MN transporter	65	Negative	1300	100	165
	Total Imbalance		165			300	265
	IMC to XYZ Transporter				1000		
	IMC to MN Transporter				1300		
	Total Amount to Escrow Account/ Non Offending Shipper				2300		
	Payout of Shipper A				2300	...A	

With OBA between Transporters		Imbalance		IMC	Zone 1 Scheduled Drawal at exit point	Zone 1 Actual quantity
	Shipper A	XYZ Tranporter (Zone 1)	100	Positive	0	200
	Shipper A	MN transporter (Zone 1)	65	negative	9100	100
	Total Imbalance after netting		35	positive		300
Assuming after OBA , Shipper doesn't avail parking facility with XYZ transporter*						
	IMC to XYZ Transporter		350	Positive		
	IMC to MN Transporter		0			
	Total Amount to Escrow Account// Non Offending Shipper			Rs	3501
	Netting Amount Payable to Transporter XYZ			Rs	5002
	OBA Amount payable to Transporter XYZ			Rs	5003
	IMS Payout of Shipper A to Transporter XYZ			Rs	10004
	Netting Amount Payable to Transporter MN			Rs	300	...5
	OBA Amount payable to Transporter MN			Rs	300	...6
	IMS Payout of Shipper A to Transporter MN			Rs	600	...7
	Total outflow of Shipper A			Rs	1950	...8=7+4+1
	Saving of Shipper A (15%)			Rs	350	...9=A-8

*To show maximum possible outflow with IMC charges

Gas Price	280	Rs./MMBtu	Assumed Number
Cash out - Annexure 3 f			
	Positive	Negative	Imbalance Charges
Shipper A	MMBtu	MMBtu	Rs.
Plant X- zone 1	200		2000
Plant Y- zone 1		300	3000
			5000 ...1
Shipper B			
Plant Z- zone 1	100		1000
Total Imbalance Charges			1000 ...2
Total Imbalance Charges - Escrow Account/non offending shippers			6000 ...3=1+2
Total Payout of Shipper A			5000
Total Payout of Shipper B			1000
Netting Services Both Plant in same Tariff Zone			
Shipper A			
Plant X	200		
Plant Y		300	
Daily Imbalance qty upto D+X (assuming x is 3)		100	
Cumulative Imbalance (assuming x is 3)		300	
Total Imbalance Charges upto D+X (assume x is 3)			3000 ...4
Imbalance settlement under Cash Out			84000 ...5
Imbalance Management Service Charges to Transporter			2000 ...6
Payout of Shipper A for IMC			5000 ..7=4+6
Payout by Shipper A for Cash out			84000