

22. ACCESS CODE FOR CITY OR LOCAL NATURAL GAS DISTRIBUTION NETWORKS, REGULATION, 2011

W-330N/99 Che Gazette of 3tdia 601 m—sédition' 4 w AVITORrry 29, 2011 8, 1933 NEW DEINI, TUESDÄY, MARCH 29, 2011]CRArfB.A 8, 1933 29 •N, 2011 2006 (2006 1 9) 61 t 2011 I .(0) 2006@i; 1 2007 t (q) 1133 GI/2011 2 (g.) (B) (t) (6) THE GAZE•rrE OF m=sæ 4] it 2006 •r 2006 Mratr arar t; müt'a•rütT;' (X.üt.)- t, G' t 'fi äiâiG0600 tar t tar t; 3fä t 3 (3) (ur) (7) (q) (9) (7) 3ia•atä RRzar) 2008 9 •uvar O; az•r 3Tä «a•ar t amczar) 2008 tr t; 4 (q) (K) THE GAZETTE OF NDIA : EXTRAORDINARY *QiaT, agr .3Fzr (iD atr 3m.TR Tyra-ear t, *7tr; eqr t;. 15 afri tmr t t; [PART III—SEC. 4] 5 (a) fir (F) *itr; izr t 6976- 1:1983(\$ aa Oat; \$r aza± QTä 0.5 F) 3râ tr t asr 7 3q- (&Ü) Zira". t, a7R Ravr aTa•r t: ar (QV3fiü) 6 THE GAZETTE-OF INDIA EXTRAOR.DmARY [PART m—Sæ. 4] (3M) å, t, asr ag t QTä - (iii) ztT t; (iv) 3'•rfi OT 3A•aT t; tri tcqotr: 3R.ßT (Q73fr\$) t, 15.56 (600 a•rtM17 1013.25 (14.696 trazrr) 0; Dot. ag (273.15% 320 tff.) 105 (3ia'l'rzr rztßT ftao•r arar t, #2R, 314*aT31T ta•Pr 41 2. afr t, 2006 Razor t 3Rfi, t, Off, (a7R Navr R•msear) 2008 asrt 7 F) (u) RaoT *r &zt, 3ßfi, t, 2008 3rva•rr -(iii) (a-JR 8 -THE GAZETTE OF : EXTRAORDINARY [PART LI—SEC. 4] F) 4. 2008 .3q«q (ii) t t, (iii) &frl amcz•ar) 2008 9 3ia7f7 t; 3Ete.r av;r qr 317T t; q•rq tat 3rat ur RRArT, 180 Rat *atr gR7tr *rea-9r a•qrä - HÄT, 10 (3) (5) (6) (7) (8) 6. (1) (2) GAZETTE OF 'INDIA : EXTRAORDINARY [PART m—SEC. 4] FRA•r * 10000 100 Orri zrr 100 .wam xzrr 3.rßrrRa Rofzr *r graT arQ71Tl 3 avr ur üao•r a•raT 3qtr-il *r aaa•r tar aur 3N eraT tl 3ra•qTü Orr' [qrq 4] (3) 7. (1) (2) (3) (4) 11 _3ft ür ital) 2010 coa 02 aaT t asr 7%3å tr 12 8. (1) (2) (3) (4) (5) (6) (7) (8) THE GAZEITE OF.'NDIA : EXTRAORDINARY [PARr IN—SEC. 4] 3TaiQT Rlq« 3•iavr 3ma•r Rrq« -3q«or 3iaQ 3TQztr 3Fzr gun*r, 14 THE GAZETTE OF : EXTRAORDINARY [PART III—SEC. 41 (2) 11. (1) 337 aur •a•e-a-a tat •arv3TT; at * zrora «rar, zr*r Mart: ufa t; gar, (g.) 15 (i) (iii) (iv) (v) Fial7; nra•r7; 12. (1) (2) 13. (2) q•raüTat qr F•raM * 0.5 qaa•r ültv: ita•r QTä qtztf ur 0.5 q•aaT3å gravr7 a-G 3vaz.r 19 7. 20 qr 21 *7tr, t, 19 20 21 .3Trqa 16 14. (2) (3) (4) (5) 15. (2) (3) (4) THE GAZETTE OF INDIA : EXTRAORDINARY wgxxkavar. [PART m—SEC. 4] NaT 5% a•aT Rzrr (1) ama•r 3m.TR Rrqr a-fit aa•aT t, at 3% atr aT@a 17 (6) (7) (8) (9) (10) 16. 1133 Glll—3 Rat 3Ta•m atr t, at a±üra, arar air* 3ß#r tar qva•r. 18 THE GAZETTE OF : EXTRAORDINARY [PART III—SEC. 4] (2) 17. 18. 19. (2) 3TaugaT Eitar at agr 5 3ia•af7 (Vat) avr at Nar GTQ7tr alR af Rat atr trfil (aar Ba'ro•r, RB-zø:r, 2008 ü•aT 19 20. (1) F) (a) (2) 21. (2) 31Tq«r waft arr cirå aa--,- ft-ur (ii) zrr æ:i717 Xzrr altr (iii) 20 THE GAZETTE OF [PART m—sæ. 4] (3) a•ra, t, 22. 23. (1) (2) a•uT qr 3öiVTT, (a) *aTä •3il\$, 31fi:); 3Fq iâc.r aur err Orr Rzrr zrü 41 2, 2. 1. 2. 3. 41 5. x. GCV x x 10-6 p sn * (3iai<rzz 320F)h 105 apa IC6N/mm2 - 9.869x1C6 atm = 1.4510* = (Kcalßin3j al'Æ: i) Ra•aT (R.an.) gâQT co•z, N2, 02 UI—SEC. 4] 1. 2. 3. 4. 5. 6. 7. ' (ä 5(3)) zrar (X.ar. : aaatr [41 (N mz•r' 5 10 6 55 0.2 39-53* 24 BOARB NOTIFICATION 2041 Fi No. powers Conferredby of the Petroleum aiu Näatural. Gas Regülatgy. Board Ft, 2006 (19 of 2006)', tie Petroleum and Natural Get regulaGons,; namely :— 1. Short Mk (l) These regvldions. may be•cciled the Petroleum and Natural Gas Rewtatory *Board (Aceeø •Code- för City 0k Lodai• Natural Gas Distfubition- Networks) Reguations,, 201* . (2) These regdlafions shdl scorne f- :jnto 'force on the. date of their publication in the Official Gazette

2. Defi&rw.(1) In these regulations, Unless the context otherwise 'requets,- (a). "access means: ' a - contract' - between the entity-and the defining theterms and conditions for access to entry point-capacity. exit Bioint- Capacity. and CNG exit -point capacity city or local natural}: gas distribution and placed onr the websfterof•authorised entity: Provided that •access 3 atrangement- shall be based on access arrangernenf guidelines i\$ted by the Board: Provided further that its capacity webhosted shall-be thet available capacity, (b) "Act• medns ithe Petr.9teum •and Natural Gas Regulatory Board Act, (c) "allocated capac*y" means the scheduled maximum daily edøacity in MMBTU at entry -point agreed betWeenâhe authorised entity and the shipper for (d) "appointed day" means *he October L 2CV• When the Central. Government notified *the establishment of the Petrotebm and Natt-rd Gas Regulatory. Board; (e) "auth«lseø enMy" meanS an ,entiW that* aafhötised to lay, bGld. operate oc expand a. city or, Ecal natural gas distribution network in a geographicdf drea thea Petrbtécñ•n '*d'rid Natural Gds Régufatory Board ACT; diid the *retevanf reguations made thereunder; (f) "Board" means the Petroleum arid Natural" eciSsRe6ulatory Board estgbfishe# under-the Petioieumr dna Natural Gas Regula.tory Board Act, 2004; (g) "CNG exttipoint'l means the- point af which -thezCNG 'is taken from q CNC compressor •delivery to

shipper. with proper arrangement for metering at outlet. of the CNG compressor by the authorised entity: Provided that, the CNG exit point shall terminate at tubing connection or union where, a compressor exit is connected to dispenser and at fitting node in, Case' it is, connected to CNG discharge of the shipper; (h) "CNG exit point capacity" means the quantity of CNG, measured in kilograms (kgs), which the authorised entity shall deliver to the shipper at CNG exit point in a day: Provided that the CNG mass, into energy value by applying the conversion formula as specified in Schedule-I: Provided further that a zone has to be defined by the authorised entity upfront from time to time and the same has to be informed to the shipper: (i) RCNG point maximum, ('CNG exit point the, natural' gas. measured in kilodram (kgs), which can be off-taken by the shipper at the relevant CNG exit point in a day; (j) "compression charge - net work" (excluding statutory taxes and levies) - in RS/LKg online compression of natural gas into compressed, natural gas for subsequent dispensing 1133 GI/ 11—4 m—SEC. 4] to customers in CNG station, as determined and by the Board; (k) "day" means a period; twenty-four consecutive hours beginning at hours on a day, and ending before the start of 0600 hours on the following day; (l) point" means the point for which gas delivery has been mutually agreed between the shipper and the authorised entity; (m) "delivered, quantity" the quantity of gas in MMBTU delivered by the authorised entity at designated exit point of the shipper; (n) "dispute" -means' any dispute or difference arising between the entity under or in connection with these regulations or the access arrangement; (o) "distant connection" means a connection of having a connectivity in any Chargeable of (the* geographic area beyond the provisions of regulation 9' Of the Petroleum' and Natural Gas Regulatory Board (Extension for City or Local Natural Gas Distribution Network) Regulations, 2008; (p) "entry point" means the point at which the natural gas delivered by a shipper, is injected into the city or local natural gas distribution network and the gas receipt -for city or local natural gas distribution network should preferably be at the city gate station; Provided that receipt at any point on network shall be as mutually agreed between the authorised entity and the shipper in the access arrangement. Provided further that The gas received for a new geographic area or for expansion of existing CGD networks shall preferably be from transmission or, sub "not. from the existing geographic area; (q) "entry point capacity" -means- a quantity of natural gas in MMBTU, at a specified Gross Calorific Value, which the authorised entity shall receive from shipper at the relevant entry point in a day at designated exit point; (r) "entry point, "quantity" ("entry point MDQ"). means [qm 41 -the quantity in MMBTU at a specified gross calorific value due for to the shipper authorised entity receive the shipper at the-relevant. entry in a, day as agreed. In the access arrangement; period" means the period allowed by the under the Petroleum and Natural Gas for City or Local Natural Gas from the purview of common carrier-or-contract (t): "off-take" means the quantity of gas which is off-taken from city-a* local natural gas network by the shipper as agreed between the authorised entity and the shipper in the access arrangement and such. exit point at authorised entity stations. CNG exit point and all such points-mutually agreed- between the shipper -and authorised entity in the access arrangement: Provided that- domestic pipeline gas point shall be the concerned point shall be considered for aggregation the off-take -for domestic. (ii)-. - any new exit point; on technical, and (u) "exit point means the maximum quantity: of natural gas in MMBTU. at a specified. Calorific Value which the authorised entity shall deliver to the shipper at the relevant point in a day; (v) Uplift" means the quantity of gas in MMBTU. at a specified Gross Calorific Value, which is added by the shipper at specific metering station and CNG exit point in a day; (w) on gas. means the quantity of gas. negative- quantity per day as specified in regulation 15; (x) "fine : pack" means a quantity of gas- that must be maintained in the city or local network at all times in order to maintain an uninterrupted transportation and supply of gas through the network; 27 LI—SEC. 4] (y) "lost and unaccounted means the quantity of natural- gas which unaccounted for whatsoever- reason including, but not limited to blow downs. verifying or release during regular operation or maintenance of the city natural gas distribution network. and isn't due to meter readings at the entry and exit point; (z) means an entity dealing with marketing or trading for natural gas; (za) "maximum daily means the maximum, volume of natural gas contracted booked, scheduled for. delivery or delivered in a particular, day-within four hours of the day; (zb) means the maximum rate, in MMBTU per hour. up to: the rate- of delivery. the authorised entity shall deliver natural gas to the shipper at the -relevant exit point' as specified in the access arrangement; rate" -(*MOR") means -the maximum rate, in MMBTU per hour, at which shall off-take natural gas at the relevant exit point

point ds specified in the access atrangement and MOR shall bé:the same' in yaiueas me MDR; (zd) reeWt rüE. '(WMRR"•) means 'the rrüärnum rate, in MMBTU per hour, at which -the, authcxised entity -shall receive natural. gas at the telewant entry point as specifie&in the access arrangement;' (ze) MMNVBritish Thermal' Units and shau be fhe unit for energy. content of gas based on gross calorific Value •a; defined in ISO 6976-1 :1983(E) and amended or modifie4 from time to time: (zf) the unifr6teof" nariff statutory taxes and levies) ' ins rupees pur mMon Units (Rs./ the eategoriés Of customers Of in a CGD network as determined and apprvd by the Board: (zg) "nomlfiatedaqãantity" TYtedhs the quanfity: of natural gas in MMBTU,- cõnfrmr by the -'hipper to -the authorised entity for delivery at the design!ed entry PQÉnt with de.tdiS of off takes at the relewant- exit-. paint oh 'daily - baSjS -for disttibvtion - or •Ifor consumption: Provided \$hat,.'no nomination shall be required for MDQ4es than 0.5 MMBTU; (zh) "off-spec gas!" means -the natural gas delivered- by theshipper 111—«« 4) at the entry point or delivered-by •tie at -the exit poinf Which does hot confcym to the gas parameters referred to in sub-regulation (1) of regulafion 7; (Zi) pressure" pressurq , cMeQQnding to a flow rate at wNch thé relevant section of the city or local niaturai gas distribution network iS operafed: Provided that' at no •point of 'time the operating for the network Shalh exceed design pressure or maximui-n allowable opergting -.pressure(MAOP) as -spedfied•• in •technical and. specifications ineludng safety standdrds regulations; (zj) •"-scheduled quanNty" meanshequantity MMBTU, scheduled for the' specifie .by the authaised entity at the desighated enhy point 'or exit point for distribution or self-use based on the nominated capacity and h accordance with he provisions Of the access arrangement; (zk) "shipper" -means a consumer, a nuketer orony authorised entity who intends to utilize the cabacity ip the. CGD Network: Provided that the shipper shaH be - {iii) (ivy an e*jsting consumer in the nebN(Yk of:thSeafiW;; a •body corporate -with •ttw positive net and'be in the business -for at least one wnh- physicdr business set up the geographid area having. •been assessed for income tax; a consumer. regGt«ed 'Mth the entYy a new commercid or hdusMd consurrM'sMth' physical _presence .irr thebsine\$; or an entity. hcMng. pton to -tWbosihess With DFR financially apordised and the bdnk. NOTE: In case the- existing shipper hd@aefautted on-payments or any other contractudi obligation with theauthorised entity, the shipper shall take No O*ction Certificate (NOC) from the, duthoiiséd entity before being qualified as "shipper"; (ZI) "Standard COSic Metre" means the volume of gas which cccOpies'J7öæAZUbic - meter Ofs tspace when such gas is at a tempetafure of 115.56 degrees centigrade (600 F) :ahd at a bressure of 1013.25 milli Ber (14.696 (zm) 'Standard Temperatun abd Pressure" (U.STP"). means temperature 30 [Parr m—SEC. 4] and fii&natiOnal oil Puie and Applied Chemistryo as OOC (27625 K; 32 *yand 105 Pascal. (zn) "system use gas" ("SUG") means the quantity of natural gas, in MMBTU; used by the authorised'* entity for' operation and maintenance of -the city ot' local .hdfurat gas distribution network including. but not limited to,' -genergr use of gas for Compressor, prime movers. gas heaters and . venting or flaring. for safety requiremenis: (zo)- "Unit Measureme*"; . unit for, rneaswement• of quantity ot-gas-and shall be in rnitfion -British Thermal Units (MMBTU) gross for- - all consumers 'and CNC exit point quantity shali be measured in kil%rams. bUt• converted to MMBTU for natural gas quantity reconciliation ptrpose: (2) Words an— expressions-used and not defined in these regulations,, but defined in the Agt or irvthe rufes or regt.ßations •made thereunder, shall have the meanings respectively to them in the Actor in the rules or regulations-as the case 3. Application. These regulations shau- apply to an entity authorised •to lay. build operate or expand•a city bcal nate gas distribution network in a geographic cea 'under'the Petrolet.xn and Natural Gas Regulatory Board *Act,- 206, immediately at •end of its exdl.ßvity period, if any. allowed by the Board the, Petroleum -and Naturat Gas Regulabry Board (Exclusivity 'for City or •Local' Nan-rat Gas Distribuiion Networkk Reg.AaãonSi the xpuvview of common cattier or contract c«mieit. and. to. any entity Or •shipper who wants •acces to entry point exit point: capacity-and delivery at - CNG«exit point capacity:on such city_gr focal' gas, distribution network fbr supply. of nature •d0fiwtic. cornrr•cd-or-industrial consumers: Pyovided that• (a) the entity shali anow •access to shipper on non- discriminatory basis to a city or local' natural z gds distribution •in' a, geographic;. to the threstfold limits mentioned ihr regÜlation S af .fhe end of the excellÄdity period, if any, qllowe&by *he -Board; (b) the development of the infrasfrucfure shatl be govaneöby the 31 Petrdeum and Naturd Gas (A-uthaüng Entities to Lay. Bt.fld, Operate City Natural Gas and-mé shippers shall get their -or by fie eMfy- (1) up tothe•surakshg hoséØnnecting to .thebuthur of the domestic connectiOns; (h) up -to the • meteing point in case of corrwycwia! and industrial Connections; (iii) up to CornÜessör case of CNG. station. Note: (1) The. (Nthaised entity its suraksha 'hose for- dl imes

the Natural Gas Board' (Technical-Standards •and - Specifications -Incl'Üg Safety City or Local Natural Gas Distibufion Regulaionsv mæ. (ii) -Thenmetering point bcation mteasurement iS carried out which will include retering eqtipment and pressure reduction upto desired prese-re at eii pofrlt. (Wij Compressor* exit point *taff; 'it•döde• the fi15hé noäe and CNG meastxemeht facilities. Provided-further that, (a) the charges for transportaifom for. distant connections Shall! be as agreed betwærf *he authcyised thelshipper •in _the access arrangement tili the time -is cöveied under regutcifion 9 of the Petroleum and • Natural Gas Regulatory Board (Exclusivity. •for--City cx -Locat NaWrdis Gas Distrbutio Nehwörks)• Reguiutione m08: the authorised entity shan provide eonnectiVity for dBtant- connection for the shipper ont his requeg subjectão.techno•Sqfety considerations and cost •on 'hgt account bd'ne• by 'the-duthOrised entity snail Dé adjusted •the-tarit! in case cost'is borne by; the shipper as mutuaRy agreed between 'hé *he authotisedSent\ty; (c} the authorised entity may teqhno-,safety considerations'•dnd in such •eases the entity infima}e shipper atßl ttE- Board the reasons for the same within of receiving-such from-theshipper. - 4. Capacity 32 m—Sæ. 4] Fon the 'in-jty Äe, days (1) before the- erß- of its the entry cépacity, the exit point capocny and the CNG capacity, for sopen access at all entry points randvéÉt points it'.. aty •or local natural. gas.-distribution network and web'•-host. the* sqnz theW website aCcaddnce with -the provisions of, mese regulations and the .authorised entity * may. declare or web host Capacity atCDPkS for PNG ane capacity at- (Cascade fiiling capacity)- for CNG: Provided that (a) tt-e GOPdcity in a CGD .netwOrk for open access on cumulative basWat all • entry poinb' shall b' Wventy capacity ot the CGD heWvo*.Of the quantity* of gas flowing irr the CGD netw«k. highet and wén such. extra capacity in a CGD- -netw&k. 'touches "percent -limit, then. the avthorised entity raise fris To twenty percent.\$he Board may on. a suo motu fdtöwing the due process of public consultation may ask an authaised entity to build extra on and other tenänsald conditions as (b) a consumer. ,who.is getting gas through the authorised entity dbiing the exclüNity shall have the fight to reserve such capacity after the end ofexelusivity period and in case the shipper is VMtling to.re/nqui*t the capacity, then, the shipper shall inform the authorised entity sikty days in advance. (2) The successive. capacity. de&ation shaN •be done by. the {third week of every (3)The Ofe the; CGD system-for •entry, or exit points on city or local natural gds- disMbutioh network shadbe determined as per the relevantregulaions. • (4) The authofised entity can pr abandon any e.isfing entry points or exit points on -the CGD network on techno-econorwc considerations: Provided, that. any existing custon-wrcon networkis rwt adversely affected 6y±he decisiiori authorised entity: Provided,furthev that*he -m.jthaised entity shdll -give a -notice of atleast sixty days and. -reek' commentS of Kcase of abandoting any of the eisting erfry or exit points.

5. Capacity booldng.(2) (3) (4) (5) The authorised entity shall publish for public consultation an informafion memorandum, in the format specified in Schedule-II on its website as wetl as in a national daily dnd a vernacular daily newspaper, seeking capacity booking for the entry points and exit points capacity on its city or locat natural gas distribution network while CGD network is opened for access to the shippers. For the first time, public consultation shall commence at least 180 days prior to end of the exclüivity. period of the authorised enfity from the purview of common or contract carrier . Interested shippers shall submit in format specified in Schedule-III their offers to the authorised entity for nominating the capacity booking within ninety days from the date of commencement of the pubfc notice for capacity booking. The sum of the requested entry points MDQ shall be greater than or equal to 10000 standard cubic meter per day (scmd), and the sum of cumulative off take at relevant exit point shall be greater than or equal to 100 scmd for domestic segment. The shipper can start gas sales after booking capacity in any of the domestic, industridl or customers but second such supply shall be considered once they have achieved 100 scmd supplies to domestic consumers: Provided that these units shall be achieved within the period as agreed beWveen the shipper and the authorised entity in the access arrangement. The capacity booking shall be decided by the authorised entity in a transparent manner based on the highness of the product of the sum of the entry points MDQ and the period of capacity booking. The scheduled quantity to each shipper shall be declared and webhosted by the authorised entity. (6) Capacity booking shall be finalized within thirty• days of the end of the period as specified under subqegulation 3 at • ati entry points and exit points and other relevant terms and conditions through an access arrangement. (7) The authorised entity shall publish information on the capacity booking at the entry points capacity, exit points capacity and CNG exit points capacity on the city or local natural gas distribution network in 34 THE GAZEITE OF INDIA : m—sgc. 4] the fcxmat specified in Schedule-II, on its website by third week of each month on a

7. Gas parameters.(1) The authorised entity shall define in the access arrangement the threshold limits for gas parameters on non-discriminatory basis at entry points such as the acceptable range of pressure and temperature, the acceptable CV band and the acceptable threshold limits for other elements in natural gas like CO₂, N₂, O₂ etc.: Provided that the threshold limit for such elements shall be as specified in Schedule-IV. However, in case the CGD network has been established exclusively based on Coal Bed Methane (CBM) gas, Liquefied Natural gas (LNG) or Coal Mine Methane (CMM) from open cast mining, when the gas specifications do not conform to specification under Schedule-IV, a specific approval shall be obtained from the Board. Threshold limits for various parameters of natural gas shall be specified in the access arrangement. (2) If the natural gas delivered at the entry points by the shipper does not meet the requirements of natural gas in terms of gas parameters as specified in the access arrangement and as specified in these regulations, the authorised entity may (a) refuse to accept it; or (b) transport gas from access point to the exit to the customer. (3) The authorised entity may and the quality of gas band width (4) The authority may make provisions by Gas Board 8. Factors for (1) The shipper to entry points at his cost unless agreed otherwise between the shipper and the authorised. (2) The authorised entity shall install, test and deploy 'O' level gas at agreed measuring equipment or any other system as between the authorised entity that the authorised entity. A meter at the entry at his own expense. (3) The shipper shall ensure that the authorised measuring equipment installed in his premises; (4) The shipper shall own, operate and maintain facilities upstream of the entry point at his own cost and risk unless otherwise agreed between the authorised and the shipper. (5) Connectivity to the authorised from the shipper scope shall be provided and cost shall be borne by the one who initiates (6) and the cost in the meters. (7) The agreed strip. (8) At any time and the shipper shall be responsible for the cost of the gas by shippers. (9) The entry, the exit points shall be as per. (10) The shipper shall be allowed to enter the network twenty-four hours prior to the time of the scheduled delivery for a day on a best basis for the system or return (b) the shipper shall be responsible for the re-connection to the authorised (2) In case the entry; and exit, points, quantities on quantities based on the scheduled quantities. (3) The entity shall be agreed between the entity and the shipper. (4) The shipper shall be responsible for the gas delivery terms in MMBTU. (5) The shipper shall be defined in ISO 9142: Provided that (a) the gas delivered at the relevant points shall be measured (b) the shipper and the authorised entity shall be agreed between the shipper and the authorised domestic customers and shall be done within a period of one month as per the methodology agreed if the gas is delivered (4) for CNG, the daily offtake of gas shall be measured in kilogram net and the average quantity, the relevant day, measured at CGS in the event of quality of the gas supplied from time to time and the same shall be reported to the shipper. (2) The detailed measurement accounting, procedure shall be as follows. (1) The charges for (a) (b) (c) (d) (e) transport to the CGD network. system use gas: commission charges; overrun charges. if the gas is delivered in the access arrangement; (f) the charges in the arrangement such as (i) the technical up of system; with the approval of (1) The charges for (a) (b) (c) (d) (e) transport to the network shall be the sum of the relevant entry points quantity: Provide a tariff for the gas not to be attracted in terms of the contained in access code. (2) The charges for (a) (b) (c) (d) (e) transport to the network shall be consumed. (3) The charges for (a) (b) (c) (d) (e) transport to the network shall be consumed. (4) The charges for (a) (b) (c) (d) (e) transport to the network shall be consumed. (5) The charges for (a) (b) (c) (d) (e) transport to the network shall be consumed. (6) The charges for (a) (b) (c) (d) (e) transport to the network shall be consumed. (7) The charges for (a) (b) (c) (d) (e) transport to the network shall be consumed. 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authorised entity -pay Gtwrges in the access case autt•æd is 'toprovide capacity .up to the scheduled quantity.- .thae,. is' -a planned maintenance as specified in regulation 19 & -t•twe is a force majeure as in ægulation 20 b as specified in regulation 211

14. Overrun charges. (1) The methodology for calculation of the quantity for a shipper at each entry point, in MMBTU, on a, day shall be specified in the access arrangement on manner: (2) The shippers shall not have, to, pay any* overrun charges for overruns to 5 % of the scheduled quantity. Overruns beyond 5 % of the scheduled quantity shall attract (3) The overrun, charges for. Overruns greater than of the scheduled quantity shall be reasonable, and non-discriminatory and shall be specified in the access arrangement. (4) The overrun charges payable by the shipper for particular entry point in respect of a day shall equal to the product of the overrun quantity calculated as stipulated in Sub-regulation of this regulation and the overrun rate as specified in the access on non-discriminatory basis. (5) The overrun* payable by, the shipper in respect of a day shall be equal to the sum of the overrun charges payable in respect of each entry point on that day. 1133 Gill—7 4) III—SW 4] 15. (1) Imbalance quantity on a day, in MMBTU, shall be the excess of the shipper's quantities delivered at the entry points over the aggregate quantities offered at the exit points. (2) Imbalance quantity on a day, in MMBTU, shall be the excess of the aggregate, offered quantities at the exit points over the aggregate quantities at the entry points, (3) The cumulative imbalance at the start of a day shall be equal to the cumulative imbalance at the end of the previous day. At the start of the first day gas is delivered by, the shipper, the cumulative imbalance shall be zero. (4) The cumulative imbalance at the end of a day shall be equal to the sum of the cumulative imbalance at the start of the day and the imbalance for the day. (5) The shipper shall not have to pay any imbalance charges upto a cumulative of 5% and cumulative negative imbalance of 3% of the sum of the relevant entry points MDQ. Authorised entity shall notify the imbalance quantity to shipper on daily basis so as to provide an opportunity to shipper to cure imbalances while submitting nomination quantity for subsequent period. In case the shipper is unable to cure such imbalances in a period of fifteen days, then the entity shall have the right to adjust daily nomination at the entry points and exit points to cure such imbalances to ensure safety and integrity of the city or local natural gas distribution network. Imbalance rates cumulative positive imbalance and cumulative negative imbalance over and above these limits shall be reasonable, non-discriminatory. (6) The imbalance payable by the shipper on any particular day shall be equal to the cumulative imbalance quantity calculated as stipulated in Sub-regulation 4 of this regulation and the imbalance rates specified in the access (7) The daily imbalance gas quantities shall be shared between the shipper and the authorised entity every fortnight considering for industrial; commercial and actual daily metered amounts CNG segments and assuming a mutually agreed daily consumption quantity of gas for domestic segment; the methodology for the daily settlement shall be - The reconciliation with actual metered quantity shall be as follows: the access between the shipper and the authorised entity. (8) There shall be established an escrow account by the authorised entity which shall be credited with charges by the authorised entity on account of imbalances and overrun; these charges shall be withdrawn from the shipper's contractual obligations with reference to supply or any and extra efforts to compress gas in case of emergency and for management of the CGD network due to such imbalances created by the shippers. (9) The authorised entity shall Sub-rule of the escrow account referred to in sub-regulation 8 shall be referred to the Board. (10) The balance amount in the escrow account shall be utilised by the authorised entity in such a manner and manner as may be determined. 16. (1) The MDK -arbitration MRR, - from the date which the shipper shall not have to pay any in so as to ensure the safety and integrity of the city or local natural gas distribution network. (2) The charges for deviations in hourly delivery and off-take rates that exceed these limits shall be the access arrangement: Provided that the shipper shall not be required to pay any charges for in hourly and off-take rates that exceed the limits in the access arrangement for the first sixty days of commencement of its access to the entry and exit capacity on the city or local natural gas distribution network. If the shipper has booked capacity under regulation 5. 17. (WAG). The authorised entity shall advise the shipper and LIJAG, if any, shall not - IL—SEC. 4] pass on: Provided that to arrange this natural gas from any source; The authorised entity shall not pass on charges shall be passed on to the shipper. On the basis of tariff this shall form at price. 19. (1) The authorised entity shall intimate the shipper on non-discriminatory basis of its maintenance for a defined period well ahead of time as agreed in the access arrangement; identifying those entry and exit points where natural gas flows may be restricted by maintenance works; the extent of the restrictions and the time of occurrence. The authorised entity shall plan such maintenance so as to minimize disruption -

to affected Varies. (2) The planned shut down period for any customer. in all the segments except: domestic, shall not exceed ten days in a year. For domestic Customers. the service obligations specified in the Petroleum and Natural Gas Regulatory Board (Authorizing Entities to Lay, Build, Expand City. or Local Natural Gas Distribution Networks) Regulations. and other relevant regulations shall prevail

20. Force majeure. (1) The affected party shall on occurrence of any force majeure - (a) as soon as practicable notify each of the other parties of the occurrence and nature of the force majeure, the expected duration thereof insofar as the same can reasonably be assessed and the obligations of the affected party performance of which is affected thereby; and (b) from time to time thereafter provide to each other party reasonable details of the following; namely: - (i) developments in the matters notified under sub-regulation (a) of this regulation; (ii) the steps being taken to overcome the force majeure occurrence and its effects to resume performance of its relevant (2) The authorised entity and the shipper shall be relieved of their respective obligations arising out of and in the course of force majeure. (1) The operating procedures to be followed by the authorised entity and the shipper during a regulated operation as an event of an emergency shall be included in the access arrangement. (2) An emergency may exist - (a) by reason of a leakage or suspected leakage, of gas; or (b) in the following circumstances: (i) the safety of the network is at risk; (ii) the safe conveyance of gas through the network is at risk; (iii) gas conveyed by the network, is, at such a pressure or of such a quality as to constitute, when supplied to the customer's premises, a danger to life or property; or (iv) any other circumstances authorised entity to constitute an emergency (which, for the avoidance of doubt, may include circumstances upstream of an entry point). and, where the context requires, a reference to an emergency includes the event or circumstance which gives rise to such emergency. (3) The authorised entity shall take steps to restore normal operation of the network as soon as reasonably possible after an emergency and the restoration of services to the various customer segments in case of emergencies or disruptions or interruptions in the city or local natural gas distribution network shall be carried out in the following order of priority. namely: - (a) domestic PNG customers; (b) Domestic (c) CNG (d) Others

22. Confidentiality of (1) All documents, information, data, submissions and comments disclosed or withheld in writing or otherwise by any entity to the authorised entity, shipper or to any other party either in connection with or in consequence of- the elements of these regulations shall be regarded treated as confidential and shall not be disclosed either in full or in part of any other information, data, comments and the contents and copies thereof in any except in connection with any proceedings in any court

23. Miscellaneous. (1) The Board shall have power to issue with these regulations in case of dispute; the by the Board shall be final and binding. (2) If any dispute arises with respect to the interpretation of any of the provisions of these regulations, of the Board shall be final. (see regulation 20) (i) $\text{MMBTU} = \text{Mass of CNG (Kg)} \times \text{GCV} \times 10^{-6}$ 1. $p = \text{Density of Natural Gas at STP (kg/Sm}^3\text{)}$. = Standard Temperature, and Pressure as defined by IUPAC (International Union of Pure and Applied Chemist" as air at 273.15 K, 101325 Pascal (1 Pa = 10⁻⁶ N/mm² = 10⁻⁵ O. 1020 kPa/m² = 1 atm = 1.01325 x 10⁵ Pa = 1.01325 bar = 1.01325 x 10⁵ N/m² = 1.01325 x 10⁵ kg/m²) 2. G Gross Calorific Value in (Kcal/Sm³) 3. GCV and p. shall be from homogeneous zone to be defined by the authorised entity Upfront from time to time. 1. 2. 3. 4. 5. 1. 2. 3. 4. 5. (see 50) and 5(7)) cons— on city or local natural gas Name of entity Name of City or Local Natural Gas Distribution Network Name of entry points and entry point capacity (in MMBTU at specified GCV) at each Name of entry points, and entry point capacity (in MMBTU at specified GCV), at each point and CNG exit point capacity (in kgs) at each point: Required Gas parameters at entry points: (a) acceptable range of pressure and temperature: (b) acceptable range of the CV band: (c) acceptable limits for elements in natural gas like CO₂, N₂, O₂, etc. (see 5(3)) For city or local gas (Name of entity: Name of City or Local Natural Gas Distribution Network; Name of entry points and entry point capacity requirement (in MMBTU) at each point: Name of exit points, exit point capacity requirement (in MMBTU) at each point and CNG exit point capacity requirement (Kgs) at each point: Gas parameters at entry points (to be specified separately for each entry point): (a) range of pressure and temperature (b) the CV band (c) estimated limits for other elements in natural gas like CO₂, N₂, O₂ etc,

6. Requirement (to be met at each exit point): (a) acceptable range of pressure and temperature (b) elements in natural gas like CO₂. NZ 02 7. Start date and tenure (in number of days) when access to capacity is required: (See regulation 7(1)) Threshold for city or local natural gas Wt% of Hydrocarbons

dew pt (Degree Celsius, max.) Water dew point(Degree Celsius, max) Hydrogen Sulphide (ppm by wt. max.) Total Sulphur (ppm by wt. max.) Carbon dioxide (mole % max.) Total inerts (mole %) Temperature (Degree Celsius, max) •Temperature (Degree Celsius, min) Oxygen(% mole vol. max.) Wobbe Index (for domestic consumers) Note : * based on MJ/SCM Limit 5 10 6 8 55 10-20 0.2 9-53* RATAN P. WATAL, secy. {ADVT. 11V4/188JIO-Exty.] Printed by of Rizw Road, New Defy-110064 by Co—t• of Delhi-110054.

