NAMCHIK NAMPHUK COAL BLOCK SUMMARY

PART A

Sr. No.	Features	Details
1.	**Location**	
	Coal Block	**Namchik Namphuk**
	Latitude	27° 23' 01" N - 27° 23' 41" N (Provisional)
	Longitude	96° 00' 58" E - 96° 02' 00" E (Provisional)
	Topo Sheet No.	92A/3
	Coalfield	Namchik Namphuk
	Villages	-
	Tehsil/Taluka	-
	District	Changlang
	State	Arunachal Pradesh
2.	**Connectivity with Block**	
	Nearest Rail Head	Nearest railhead is about 31 km away at Lekhapani, the terminus of the New Bongaigaon-Lekhapani meter gauge section of N.E. Frontier Railway.
	Road	This coalfield lies about 45km north-east of Margherita, the headquarters of North Eastern Coalfields and can be approached from Margherita through NH-38 for about 26km up to Jagun, 14km along Jagun-Miao road up to Kharsang and a 5km Oil India Road from Kharsang to the coalfield.
	Airport	Nearest airport Chabua is situated about 125 km from the coalfield.
3.	**Area**	
	Geological Block Area	0.92 sq.km. (As per shape file; Refer Note No. 3), (Refer letter no. CMPDI/D.G./Captive/130/857 dated 04.10.2017 of GM (Expl.) CMDPI addressed to Under Secretary, MoC (Copy Enclosed)
	Geological Mapping Area	1.45 sq.km. (As per salient features of GR)
	Green Cover	Approx. 42 % (As per FSI plan)
	Area excluding Green Cover	Approx. 58 % (As per FSI plan)
4.	**Climate and Topography**	
	Average Annual Rainfall	275-380 cm
	Temperature (Min. — Max.)	1°C-32°C
	Local Surface Drainage Channels	The area is highly dissected by rills and gullies especially where the forest growth is less dense. The perennial rivers, Namchik and Namphuk and their tributaries drain the area.
	Rivers	Namchik and Namphuk

5.	**Exploration**				
	Status	Explored			
	Exploration Agency	MECL, GSI			
	Total Number of Boreholes with meterage	28 Boreholes; 4321.49m (MECL: 16 BHs, 2516.10m, GSI: 12 BHs, 1805.39m)			
	Borehole Density	Approx. 30.4 Boreholes/sq.km.			
	General Dip of Seams	15°-30° south-westerly in general with steeper dip up to 45° in western extremity.			
	General Strike Direction	The overall trend of the beds and coal seams within the block is NW-SE with south-westerly dips. At the north west extremity around BH NC-3, NN-6 and trench-1, a sudden change in the attitude of beds to N-S has been recorded.			
	Faults	3 extensional faults. 30-90m throw.			
6.	**Coal Seams & Reserve**				
	Coal Seams	Thickness Range (m)	Depth Range (m)	Geological Reserve (MT) (Proved)	Grade
	VIII	0.50-3.60			
	VII	0.15-3.70		0.373	
	VI	0.15-3.10		0.6936	
	V	0.30-9.20		2.0389	G4-G5
	IV	0.30-5.75		1.9149	
	III	2.45-17.50		8.0684	G4-G5
	II	0.30-5.20		2.2621	
	I	0.20-3.50		1.3493	
		Total		**16.7002**	**G4-G5**
7.	**Surface Constraints**	NA			
8.	**Grade of the block**	As per page no.51 Para 5.7 Grade of Coal, "In accordance with the notification No.28012/5/80/CA dated 13.02.1981 issued by the Ministry of Energy, Department of Coal, Government of India, the coal produced in the states of Andhra Pradesh, Assam, Arunachal Pradesh, Meghalaya and Nagaland are classified as 'ungraded'. In view of this directive and absence of the grade specification for Tertiary Coals, no attempt has been made to classify the coal of this block into various grades. However, perusal of the analytical data and interpretation made thereof indicate the following: (i) As bulk of reserves of coal is from Seam-III, the observations regarding the grade of the coal available from the quarriable part of the block are mainly based on the quality parameters of Seam-III. (ii) The coal exhibits caking properties. It has got moderate moisture, low ash and high volatile matter. Besides, it has caking index varying from 6-14 in the lower side and 14-21 on the higher side. The caking index of Seam-III, wherefrom the bulk of quarriable reserves are available ranges from 12-20. The range of coke type is from B to G. (iii) The ash + moisture content of bulk of the coals from seam-III does not exceed 19%." The grade of the coal may be **Semi Coking Grade-I (Provisional)** based on weighted average grade as per data available in GR.				

9.	**Decision Support System (DSS) Analysis**	Not Inviolate
10.	**Eco Sensitive Zone (ESZ) Analysis**	Namdapha Tiger Reserve at approx. 14.5 kms in North-East direction from the boundary.

PART B

Sr. No.	Features	Details (As per information submitted by prior allottee)
1.	**Previous Allocation**	
	Name and Address of Allocatee	M/s Arunachal Pradesh Mineral Development & Trading Corporation Village- Langton, Taluka-Kharsang, Changlang district, Arunachal Pradesh
2.	**Target Capacity as per Mining Plan**	**0.2 Mty**
	Coal extracted till 31.03.2014	1.73 Mt
3.	**Status of Clearances/Approvals**	
	Mining Plan/ Mine Closure Plan	Approved by MoC vide letter no. 1316/1/2003-CA, Dated-28.10.2003. As per information submitted by the prior allottee, Mine closure plan was under preparation
	Forest Clearance	FC Approved by MoEF vide letter no 8-69/2003FC, Dated10/04/2006 (for diversion of 39.02 Ha only)
	Environmental Clearance	EC Approved by MoEF vide letter no 1-11015/10/2003-IA-II(M), Dated14/03/2005
	Mining Lease	Not Available
	Land Acquisition	39.02 Ha (Forest land) (As per information submitted by prior allottee)
	No. of PAPs as per Mining Plan	NA
4.	Surface Infrastructure already built, if any.	Temporary office, Weigh bridge of 50T capacity, mine development work (As per information submitted by the prior allottee)

Note:

1. The above data is compiled from Geological Report, Mining Plan and the data furnished by the prior allottee in Annexure-I/II, as available. For clarifications with regard to above data, please refer aforesaid source documents.

2. The boundary of the block has been taken from GR after conversion to WGS84 system by feature matching. The block boundary is provisional and the cardinal points, bounding co-ordinates are approximate.

3. There may be a difference in area in the shape file and GR (Mapping area). Area in the shape file is based on description of block boundary given in the GR. So, the area is tentative and field DGPS survey is required to ascertain the exact area.

Disclaimer:

1. The analysis is done on Beta-version (Trial Version) of Decision Support System (DSS) of FSI / MOEF.
2. The Decision Rules for various parameters of this DSS System are controlled by FSI.
3. CMPDI only runs this DSS to obtain the status of any block based on these Decision Rules.
4. The database of the Decision Rules is updated by FSI from time to time.
5. CMPDI does not own any responsibility for variation in the results which are based on the Decision Rules of the FSI DSS in case of any updation of the database at FSI end.
6. ESZ analysis and tiger habitat/ corridor given here is based on the information available in public domain. Bidders are encouraged to verify this information and any other information additionally available.

सेन्ट्रल माईन प्लानिंग एण्ड डिजाइन इन्स्टीट्यूट लिमिटेड
(कोल इण्डिया लिमिटेड की अनुषंगी कम्पनी / भारत सरकार का एक लोक उपक्रम)
गोण्डवाना प्लेस, कांके रोड, रांची - 834 031, झारखंड (भारत)
Central Mine Planning & Design Institute Limited
(A Subsidiary of Coal India Limited / Govt. of India Public Sector Undertaking)
Gondwana Place, Kanke Road, Ranchi - 834 031, Jharkhand (INDIA)
CORPORATE IDENTITY NUMBER - U14292JH1975GOI001223

cmpdi
A Mini Ratna Company

पत्रांक संख्या:सीएमपीडीआई/डीजी/कैपटीव/130/ 857 E- 98239 दिनांक: 04.10.17

सेवा में,

Shri Rishan Ryntathiang
अवर सचिव, कोयला मंत्रालय,
भारत सरकार, शास्त्री भवन,
नई दिल्ली – 110 115

Sub: **Regarding Namchik-Namphuk (Central) Coal Block, Arunachal Pradesh**

महाशय,

Kindly refer to MoC letter No.13016/9/2014-CA-III (Pt.II) dated 19th May, 2017 & letter No.CBA2-38036/1/2017-CBA2 dated 1st August, 2017 forwarding the Record note of the discussion held on 21.07.2017 in respect of Namchik Namphuk coal block, Arunachal Pradesh. The observation of CMPDI on the issue is given below:

1. According to Coal Controller letter dated 28.05.12 (Annexure-I), the Namchik Namphuk (Central) coal block was allocated to M/s.APMDTCL in pursuance of the decisions taken in the meeting held on 28.07.1994. The coal production from the same block commenced from 01.03.2007. The Coal Controller further directed that as per the direction of Ministry of Coal, Govt. of India and under Rule 18F of Coal Mines (Conservation and Development) Amendment Rules 2011 read with Rule 6 of Colliery Control Rules, the Namchik Namphuk coal mining should stop production and disposal of coal immediately, vide letter dated 28.05.12. The allocation of block was subsequently cancelled by the order of Hon'ble Supreme Court of India in 2014.

2. Assistant Inspector General of Forest vide letter No FNO-8-69 2003-FC dated 10th April 2006 (Annexure-II) communicated in-principle approval for diversion of 128.97 Ha of forest land for the said mining lease granted by Ministry of Environment and Forest vide this ministry letter dated 09.06.2004 subject to fulfilment of certain conditions. Further vide letter dated 30.06.2004, considering request made by the state government, it was agreed by the Central Government to allow phase wise mining as the forest land shall be broken in phases, and **to divert only 39.02 Ha** (out of a total of 128.97 Ha agreed in-principle for diversion) in the 1st phase of 5 years. It was also communicated that on the basis of compliance report furnished by the state government approval of the Central Govt. was granted under Section-2 of the Forest (Conservation) Act 1980 for diversion of 39.02 Ha of forest land for opencast coal mining project in favor of APMDTCL in Namchik Namphuk coalfield in Changlang district of AP subject to fulfilment of certain conditions (letter dt. 10.04.06).

3. The approved mining plan of Namchik-Namphuk (Central) block, collected from CCO indicates that the geological block has been divided in 4 sectors, namely A, B, C & D Sector, covering 0.92 sq.km. area. Out of which the mining plan in part of Sector-A covering 0.25 sq.km. area has been approved. However a larger adjoining area has been acquired under lease. The approved mining plan and lease area has been superimposed on a Google imagery which shows that actual mining has been carried out partly in approved area of Sector-A and largely out of approved mining plan area in north-west direction but within the acquired lease area. It is, therefore, not possible

फोन नम्बर/Phone No.: 0651-2232637
फैक्स नम्बर/Fax No. : 0651-2230875
ई-मेल/E-mail: gmexpl.cmpdi@coalindia.in

सेन्ट्रल माईन प्लानिंग एण्ड डिजाइन इन्स्टीच्यूट लिमिटेड
(कोल इण्डिया लिमिटेड की अनुषंगी कम्पनी, भारत सरकार का एक लोक उपक्रम)
गोन्दवाना प्लेस, कांके रोड, राँची - 834 031, झारखंड (भारत)
Central Mine Planning & Design Institute Limited
(A Subsidiary of Coal India Limited, Govt. of India Public Sector Undertaking)
Gondwana Place, Kanke Road, Ranchi - 834 031, Jharkhand (INDIA)
CORPORATE IDENTITY NUMBER - U14292JH1975GOI001223

to estimate that how much of reserve is left in Namchik Namphuk (Central) block until surveyed plan of mined out area is provided to CMPDI for balance coal resource estimation purpose.

4. The Geological Block area of Namchik-Namphuk (Central) Block is 0.92 sq.km (ABCD of Annex-III A). The Mining Plan of 0.25 sq.km area of sector A of geological block was approved by MoC vide letter no.13016/1/2003-CA dt.28.10.2003 (refer sector A of ABCD of enclosed Map-Annexure-IIIA, and Annexure-IV). However, M/s APMDTCL obtained a lease of 1.27 sq.km (refrer Aneexure-IIIB- area 1.02+0.25 sq.km) including western and southern part of the approved area where exploratory drilling was required to be carried out as per Mining Plan Approval letter dt.28.10.2003 (Annex-IV).

5. In the 1st phase 39.02 Ha were allotted by the State Department of Forest for mining (boundary not known to CMPDI). The total quarriable reserve as per the mining plan was 4.06 MT. However, the actual extraction from approved mine plan area and balance reserves could not be ascertained as large amount of mining has been carried out beyond approved mine plan area (refer Google Map- Annexure-IIIB).. The mining operation was suspended in May 2012. These facts may be verified from M/s APMDTCL.

6. In the light of OM No.F.No.11-584/2014-FC dated 22.12.2014, the block is allocated in the forest area with a lease limitation of 39.02 Ha restricted to the current lease period only. Any estimation of upfront payment and reserve price based on the existing mining plan can be assessed only after clarification of actual mine boundary vs approved mining plan boundary and decision on balance mineable area.

7. As the mining plan of the only part of the total block is available which has been mined partly and estimation of balance reserve is not possible, the intrinsic value of the block may not be assessed and require mine plan of the total block. However, as per MoC letter No.13016/9/2014-CA-III (Pt.) dated 09.03.2015 regarding upfront payment to be made in case of coal blocks not having mining plan, "a fix price of Rs.50 crore per block may be taken which could be adjusted upward or downward as the case may be after finalization of the mining plans of these blocks" (Annexure-V). The same methodology may be considered for re-allocation of Namchik Namphuk (Central) coal block in the state of Arunachal Pradesh.

8. After allotment of the block the allocattee will take up the work of preparation of mining plan for the total block from agency as deemed fit to them.

भवदीय,
आलोक शर्मा
05/10/17
(आलोक शर्मा)
महाप्रबंधक (गवेषण)

Copy for kind information to:

1. CMD, CMPDI, Ranchi
2. Director(T/P&D), CMPDI, Ranchi.
3. Director(T/CRD), CMPDI, Ranchi.
4. GM(NEC), Guwahati

फोन नम्बर/Phone No.: 0651-2232637
फैक्स नम्बर/Fax No. : 0651-2230875
ई-मेल/E-mail: gmexpl.cmpdi@coalindia.in

Annexure-I

033-22324042

Directorate General of Mines Safety-Guwahati Region

557 4/6/12

No. CC/MCBA/145/01/2006-APMDCL

Ph:033-2248-9812 to 16
Fax : 033-2248-2460
e-mail : coalcont@wb.nic.in

GOVERNMENT OF INDIA
MINISTRY OF COAL
OFFICE OF THE COAL CONTROLLER
1, Council House Street, Kolkata - 700 001.
Dated : 24.05.2012

To
The Managing Director
Arunachal Pradesh Mineral Development & Trading Corporation Ltd.
Govt. of Arunachal Pradesh.
APFC Complex,Chimpu, Post Box No.147.
Itanagar – 791 111.
Arunachal Pradesh.

Sir,

Subject: Suspension and Stoppage of coal production from Namchik Namphuk Coal block allocated to M/s APMDTC Ltd.

Namchik Namphuk Coal Block was allocated to APMDTCL in pursuance of the decision taken in the meeting held on 26.07.1994.The coal production from the same block commenced from 01.03.2007 and the opening permission to open the said mine has been given by this office vide letter No.CC/MCBA/op.perm /Namchik/APMDTCL/06-08 dt 31.03.08.

As per the direction of Ministry of Coal, Government of India and under Rule 18F of Coal mines (Conservation and Development) Amendment Rules,2011 read with Rule -6 of the Colliery Control Rules, Namchick Namphuk Coal Mines should stop production and disposal of coal immediately

. This may be treated as most urgent.

Yours faithfully
24.05.2012
(A.Acharya).
Coal Controller.

CC: 1.Shri Arijit Roy, General Manager(Mines), APMDTCL, Namchik Namphuk Coal Mines, P.O: Khansang, Dist: Changlang. Arunachal Pradesh, - to stop coal production immediately till further instruction.

Copy also to;
1.Chief Secretary,Govt of Arunachal Pradesh. Itanagar..
2.District Commissioner, Changlang.
3.Director General, DGMS, Dhanbad.
4. [illegible]

[illegible] for information and necessary action please.
24.05.2012.
(A.Acharya)
Coal Controller.

LDC

FNO-8-69 2003-FC

Annexure-II

Forest Stage II

Government of India
Ministry of Environment &
(FC Division)

New Delhi-110003.
Dated: 10th April 2006.

To

The Secretary (Forests),
Government of Arunachal Pradesh,
Itanagar.

Sub: Diversion of 39.02 ha (out of a total of 128.97 ha agreed in-principle for diversion) of forest land for Open Cast Coal Mining Project in favour of Arunachal Pradesh Mineral Development & Trading Corporation Limited in Namchik-Namphuk Coal Fields in Changlang district of Arunachal Pradesh.

Sir,

Kindly refer to the State Government's letter No. FOR 14-7/CONS/2002/169-72 dated 30.04.2003 on the subject mentioned above seeking prior approval of the Central Government under the Forest (Conservation) Act, 1980. After careful consideration of the proposal by the Forest Advisory Committee constituted under Section-3 of the said Act, in-principle approval for diversion of 128.97 ha of forest land for the said Mining Lease was granted vide this Ministry's letter of even number dated 09.06.2004 subject to fulfilment of certain conditions. Further, vide letter dated 30.06.2004, considering a request made by the State Government, it was agreed by the Central Government to allow phase-wise mining as the forest land shall be broken in phases, and to divert only 39.02 ha (out of a total of 128.97 ha agreed in-principle for diversion) in the first phase of five years. The State Government has furnished compliance report accordingly and has requested the Central Government for granting final approval.

In this connection, I am directed to say that on the basis of the compliance report furnished by the State Government vide letter No. FOR.14-7/Cons/2002/63-65 dated 29.03.2006, approval of the Central Government is hereby granted under Section-2 of the Forest (Conservation) Act, 1980 for diversion of 39.02 ha of forest land for Open Cast Coal Mining Project in favour of Arunachal Pradesh Mineral Development & Trading Corporation Limited in Namchik-Namphuk Coal Fields in Changlang district of Arunachal Pradesh subject to fulfilment of the following conditions:

1. Legal status of the diverted forest land shall remain unchanged.

2. (i) Compensatory Afforestation over equivalent non-forest land shall be raised and maintained by the State Forest Department at the project cost.

   (ii) The User Agency shall pay the balance amount of the cost of Compensatory Afforestation over equivalent non-forest land in five equal annual instalments, out of which the first instalment has been paid.

   (iii) Fencing, protection and regeneration of the safety zone area as well as plantation over degraded forest land measuring one and a half times of the safety zone area, shall be carried out by the State Forest Department at the project cost.

(iv) The entire non-forest land identified for raising Compensatory Afforestation shall be notified as Reserved Forest/Protected Forest under Section-4/Section-29 of the Indian Forest Act, 1927 or under the corresponding Section(s) of the local Forest Act, as the case may be, by the State Government within a period of six months.

3. (i) The User Agency shall pay the balance amount of the NPV of the diverted forest land in five equal annual instalments, out of which the first the instalment has been paid.

(ii) Additional amount of the Net Present value (NPV) of the diverted forest land, if any, becoming due after finalisation of the same by the Hon'ble Supreme Court of India on receipt of the report from the Expert Committee, shall be charged by the State Government from the User Agency in one lump-sum. The User Agency shall furnish an undertaking to this effect.

4. (i) The State Government shall prepare a Bio-diversity Management Plan, to be executed at the project cost, for conservation and enhancement of bio-diversity of the region, including adequate measures for soil and water conservation and conservation of medicinal plants, with maximum involvement of the local tribals through J. F. mechanism.

(ii) The Bio-diversity Management Plan, mentioned in 4(i) above, shall be prepared within a period of two months alongwith the financial requirement for its implementation. The User Agency shall deposit the cost of its implementation with the State Forest Department.

(iii) The Nodal officer shall report compliance.

5. All the funds received from the User Agency under the project shall be transferred to the Compensatory Afforestation Fund Management and Planning Authority (CAMPA). Till such time an appropriate Head of Account is communicated in this regard, such funds shall be kept in the form of Fixed Deposits in the name of the concerned DFO or the Nodal Officer in any Nationalised Bank as per the guidelines issued by the Ministry of Environment and Forests dated 22.03.2004. The State Government shall utilise all the funds other than NPV till a direction is given by the Central Government in respect of utilization of NPV of the diverted forest land.

6. 89.95 ha of forest land (128.97 ha agreed in-principle for diversion – 39.02 ha diverted under this approval) shall be immediately taken back by the State Forest Department.

7. The Nodal Officer shall submit annual compliance report in respect of the conditions No. 2, 3, 4, 5 & 6.

8. (i) The Regional Office, Shillong, shall conduct a site inspection and submit a report towards the end of the first phase of five years in respect of compliance of the conditions mentioned in this approval.

(ii) The above report of the Regional Office shall be considered by the Central Government for subsequent release of forest land (out of the balance 89.95 ha) after the first phase.

9. The mining lease area shall be demarcated on ground using four feet high RCC pillars, with each pillar inscribed with the serial number, forward and backward bearings and distances between two adjacent pillars.

10. Reclamation Plan shall be strictly implemented which shall be monitored regularly by the State Forest Department.

11. The period of diversion of forest land under this approval shall [illegible] terminate with the mining lease granted under the MMDR Act 1957, or for a period [illegible] years, whichever less.

12. Any tree felling shall be done only when it is unavoidable, and shall be carried out under strict supervision of the State Forest Department.

13. No damage to the flora and fauna of the area shall be caused.

14. It shall be ensured that no labour-camps are set up inside the forest area.

15. The diverted forest land shall not be used for any purpose other than that specified in the proposal.

16. The State Government shall ensure maximum employment to the local people under the project.

17. The User Agency shall employ qualified personnel for supervision of the mining operations.

18. Any other condition that the CCF (Central), Regional Office, Shillong, may impose from time to time for protection and improvement of flora and fauna of the forest area, shall also be applicable.

Yours faithfully,

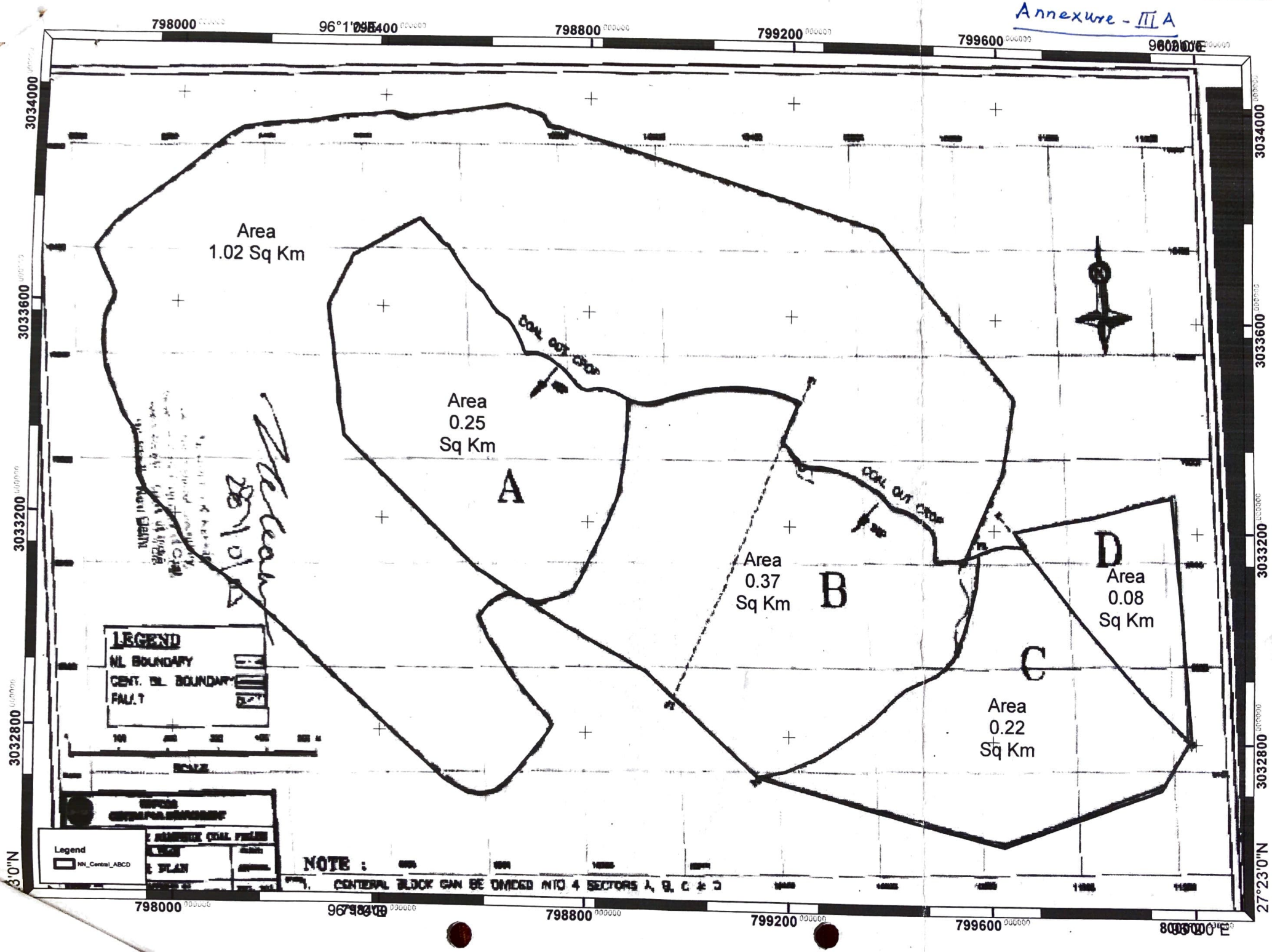
(Sandeep Kumar)
Assistant Inspector General of Forests

Copy to:

1. Principal Chief Conservator of Forests, Arunachal Pradesh, Itanagar.
2. Nodal Officer, O/o The PCCF, Arunachal Pradesh, Itanagar.
3. Chief Conservator of Forests (Central), RO, Shillong.
4. Managing Director, Arunachal Pradesh Mineral Development & Trading Corporation Limited, Itanagar.
5. RO (HQ), MoEF, New Delhi.
6. Monitoring Cell, FC Division, MoEF, New Delhi.
7. Guard file.

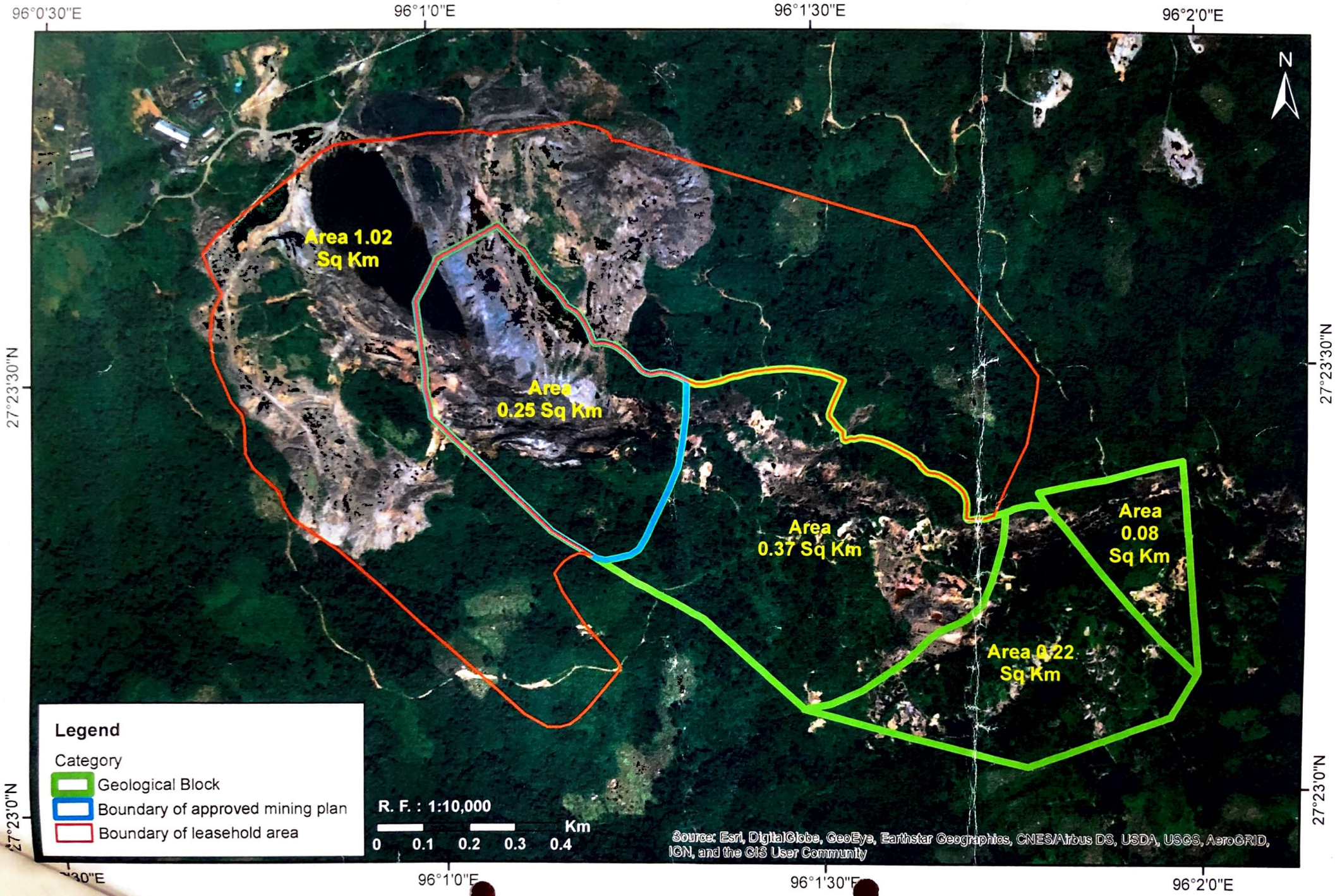
(Sandeep Kumar)
Assistant Inspector General of Forests

Annexure - III A



Annexure - III B

Namchik Central Area



~~ANNEXURE-E~~

Annexure - IV

No. 13016/1/2003-CA
Government of India
Ministry of Coal

New Delhi, dated 28.10.2003

To

The Arunachal Pradesh Mineral
Development & Trading Corporation Ltd.,
Post box No. 147,
Itanagar - 791111.

Subject :- Approval of mining plan for Namchick Open cast mine.

Sir,

I am directed to convey the approval of the Central Government under the proviso to Section 5 (2) (b) of the MMDR Act, 1957 to the mining plan for Namchik Open Cast to be undertaken by M/s Arunachal Pradesh Mineral Development & Trading Corporation Ltd. This approval is subject to the following conditions :-

i) Exploratory drilling will be carried out covering the applied leasehold area on the Western side (strike direction) and southern side (dip direction) of the quarry; and the geological information so obtained by the company will be sent to Ministry of Coal within a period of three years from the date of approval of the mining plan.

ii) No structure of permanent or semi- permanent nature or oberburden dump will be constructed or placed on the western side (strike direction) or southern side (dip direction) of the quarry till the exploratory drilling in that area is completed and the area is found free from quarriable coal seam. The exploratory data so obtained should be sent to Ministry of Coal as soon as the drilling in the area is completed.

iii) In case the continuity of coal seam is found on the western side (strike direction) of the quarry or any change in geological structure is observed on the southern side (dip direction) of the quarry the company will submit a revised Mining Plan for obtaining fresh approval.

Two copies of the approved mining plan are enclosed herewith with the request that one copy of the approved mining plan may be submitted to the State Government for grant mining lease.

Yours faithfully,

(S.K.Kakkar)
Under Secretary

Encl : As above

Annexure - V

334

F.No. 13016/9/2014-CA-III (Pt.)
Government of India
Ministry of Coal
*****

सीएमडी सचिवालय
संदर्भ सं.- 1374
दिनांक 10-03-15
सीएमपीडीआई, राँची

Shastri Bhawan, New Delhi
Dated the 5th March, 2015

To

The Chairman cum Managing Director,
Central Mine Planning and Design Institute Limited,
Gondwana Place, Kanke Road, Ranchi,
Jharkhand, - 834031

Subject: 9 coal blocks from Schedule-I to Schedule-III vide Gazette of India (Extraordinary) No. 338 dated 11.02.2015 and calculation of extractable reserves and upfront payment thereof - reg.

I am directed to refer to your letter No. CMPDI:DT/P&D:52:2015:29 dated 23.02.2015 on the above mentioned subject and to say that the suggestions made in the letter at Point No. 1 & 2 has been approved by the competent authority. However, with respect to Point No. 3, the following is approved.

⇒ A fixed price of Rs. 50 crores per block, may be taken, which could be adjusted upwards or downwards as the case may be, after finalization of the mining plans of these blocks.

2. In view of the above, CMPDIL may please take necessary action in the matter and action taken may be intimated to this Ministry immediately.

(S K Shahi)
Director-CA-III
Ph. No. 23382807

O/C

Discussed
10/3/2015

DT (P&D)
CM (UMD)
Pl. discuss

One copy in file.
One to GM UMD -
Shri Deepak Chaturvedi
Shri Randip Singh O/C

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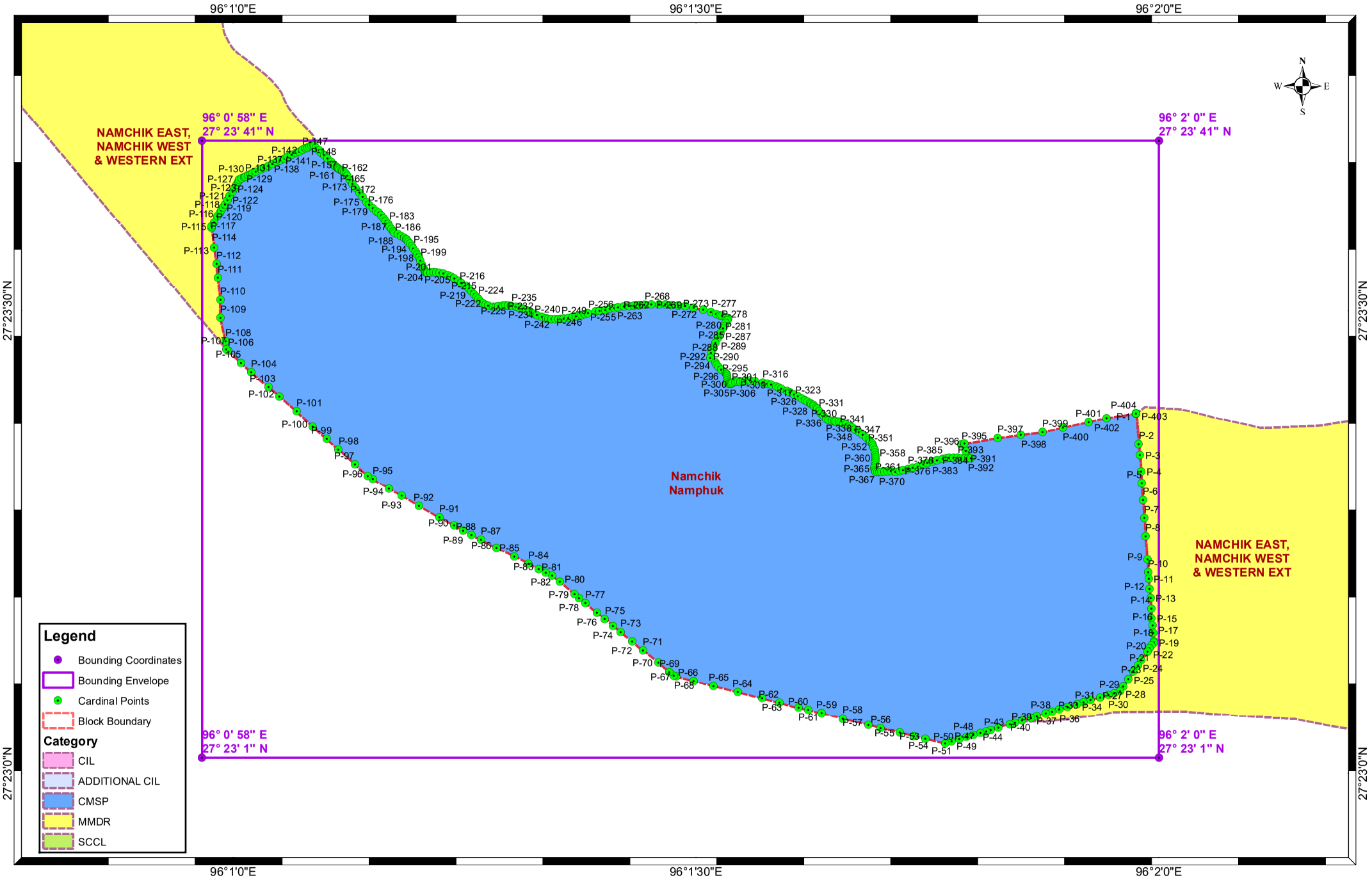
Namchik Namphuk Block, Namchik Namphuk Coalfield

FOR INTERNAL/RESTRICTED USE ONLY



Note: Data is in WGS84 coordinate system.

0 0.125 0.25 0.5 Km

Provisional Cardinal Points for Namchik Namphuk Block

POINT NO	Longitude (WGS84)	Latitude (WGS84)
P-1	96° 1' 58.538" E	27° 23' 23.316" N
P-2	96° 1' 58.710" E	27° 23' 21.341" N
P-3	96° 1' 58.777" E	27° 23' 20.626" N
P-4	96° 1' 58.854" E	27° 23' 19.550" N
P-5	96° 1' 58.882" E	27° 23' 18.802" N
P-6	96° 1' 58.968" E	27° 23' 17.726" N
P-7	96° 1' 59.061" E	27° 23' 16.556" N
P-8	96° 1' 59.144" E	27° 23' 15.368" N
P-9	96° 1' 59.257" E	27° 23' 13.871" N
P-10	96° 1' 59.312" E	27° 23' 13.038" N
P-11	96° 1' 59.351" E	27° 23' 12.611" N
P-12	96° 1' 59.405" E	27° 23' 11.950" N
P-13	96° 1' 59.455" E	27° 23' 11.363" N
P-14	96° 1' 59.506" E	27° 23' 10.666" N
P-15	96° 1' 59.544" E	27° 23' 10.049" N
P-16	96° 1' 59.602" E	27° 23' 9.576" N
P-17	96° 1' 59.629" E	27° 23' 9.093" N
P-18	96° 1' 59.660" E	27° 23' 8.555" N
P-19	96° 1' 59.662" E	27° 23' 8.480" N
P-20	96° 1' 59.533" E	27° 23' 8.292" N
P-21	96° 1' 59.401" E	27° 23' 8.093" N
P-22	96° 1' 59.265" E	27° 23' 7.880" N
P-23	96° 1' 58.864" E	27° 23' 7.326" N
P-24	96° 1' 58.639" E	27° 23' 6.997" N
P-25	96° 1' 58.367" E	27° 23' 6.605" N
P-26	96° 1' 58.018" E	27° 23' 6.100" N
P-27	96° 1' 57.678" E	27° 23' 5.630" N
P-28	96° 1' 57.477" E	27° 23' 5.314" N
P-29	96° 1' 57.111" E	27° 23' 5.197" N
P-30	96° 1' 56.709" E	27° 23' 5.072" N
P-31	96° 1' 56.206" E	27° 23' 4.917" N
P-32	96° 1' 55.592" E	27° 23' 4.754" N
P-33	96° 1' 55.145" E	27° 23' 4.611" N
P-34	96° 1' 54.684" E	27° 23' 4.477" N
P-35	96° 1' 54.082" E	27° 23' 4.297" N
P-36	96° 1' 53.561" E	27° 23' 4.139" N
P-37	96° 1' 53.066" E	27° 23' 3.997" N
P-38	96° 1' 52.658" E	27° 23' 3.868" N
P-39	96° 1' 52.093" E	27° 23' 3.697" N
P-40	96° 1' 51.695" E	27° 23' 3.582" N
P-41	96° 1' 51.118" E	27° 23' 3.417" N
P-42	96° 1' 50.678" E	27° 23' 3.272" N
P-43	96° 1' 50.335" E	27° 23' 3.174" N
P-44	96° 1' 49.594" E	27° 23' 2.956" N
P-45	96° 1' 49.086" E	27° 23' 2.805" N
P-46	96° 1' 48.806" E	27° 23' 2.708" N
P-47	96° 1' 48.434" E	27° 23' 2.624" N

Provisional Cardinal Points for Namchik Namphuk Block

P-48	96° 1' 47.976" E	27° 23' 2.486" N
P-49	96° 1' 47.529" E	27° 23' 2.355" N
P-50	96° 1' 47.064" E	27° 23' 2.217" N
P-51	96° 1' 46.567" E	27° 23' 2.070" N
P-52	96° 1' 46.147" E	27° 23' 1.938" N
P-53	96° 1' 44.866" E	27° 23' 2.242" N
P-54	96° 1' 44.131" E	27° 23' 2.412" N
P-55	96° 1' 43.208" E	27° 23' 2.649" N
P-56	96° 1' 41.974" E	27° 23' 2.939" N
P-57	96° 1' 41.171" E	27° 23' 3.142" N
P-58	96° 1' 39.519" E	27° 23' 3.544" N
P-59	96° 1' 38.148" E	27° 23' 3.888" N
P-60	96° 1' 37.287" E	27° 23' 4.092" N
P-61	96° 1' 36.639" E	27° 23' 4.256" N
P-62	96° 1' 35.392" E	27° 23' 4.572" N
P-63	96° 1' 34.268" E	27° 23' 4.871" N
P-64	96° 1' 32.693" E	27° 23' 5.269" N
P-65	96° 1' 31.156" E	27° 23' 5.653" N
P-66	96° 1' 29.832" E	27° 23' 5.978" N
P-67	96° 1' 28.707" E	27° 23' 6.274" N
P-68	96° 1' 28.581" E	27° 23' 6.318" N
P-69	96° 1' 28.275" E	27° 23' 6.561" N
P-70	96° 1' 27.547" E	27° 23' 7.175" N
P-71	96° 1' 26.569" E	27° 23' 7.965" N
P-72	96° 1' 25.863" E	27° 23' 8.547" N
P-73	96° 1' 25.118" E	27° 23' 9.161" N
P-74	96° 1' 24.643" E	27° 23' 9.543" N
P-75	96° 1' 24.095" E	27° 23' 9.998" N
P-76	96° 1' 23.593" E	27° 23' 10.416" N
P-77	96° 1' 22.830" E	27° 23' 11.031" N
P-78	96° 1' 22.440" E	27° 23' 11.354" N
P-79	96° 1' 22.118" E	27° 23' 11.608" N
P-80	96° 1' 21.158" E	27° 23' 12.418" N
P-81	96° 1' 20.672" E	27° 23' 12.810" N
P-82	96° 1' 20.279" E	27° 23' 13.009" N
P-83	96° 1' 19.817" E	27° 23' 13.230" N
P-84	96° 1' 19.157" E	27° 23' 13.590" N
P-85	96° 1' 18.234" E	27° 23' 14.053" N
P-86	96° 1' 17.088" E	27° 23' 14.609" N
P-87	96° 1' 16.069" E	27° 23' 15.142" N
P-88	96° 1' 15.424" E	27° 23' 15.444" N
P-89	96° 1' 14.906" E	27° 23' 15.718" N
P-90	96° 1' 14.332" E	27° 23' 16.061" N
P-91	96° 1' 13.359" E	27° 23' 16.597" N
P-92	96° 1' 12.045" E	27° 23' 17.348" N
P-93	96° 1' 10.925" E	27° 23' 18.001" N
P-94	96° 1' 10.095" E	27° 23' 18.478" N
P-95	96° 1' 9.066" E	27° 23' 19.067" N

Provisional Cardinal Points for Namchik Namphuk Block

P-96	96° 1' 8.742" E	27° 23' 19.265" N
P-97	96° 1' 7.885" E	27° 23' 20.021" N
P-98	96° 1' 6.831" E	27° 23' 20.982" N
P-99	96° 1' 6.058" E	27° 23' 21.674" N
P-100	96° 1' 5.150" E	27° 23' 22.477" N
P-101	96° 1' 4.108" E	27° 23' 23.464" N
P-102	96° 1' 3.003" E	27° 23' 24.431" N
P-103	96° 1' 2.309" E	27° 23' 25.049" N
P-104	96° 1' 1.180" E	27° 23' 26.002" N
P-105	96° 1' 0.521" E	27° 23' 26.609" N
P-106	96° 0' 59.664" E	27° 23' 27.385" N
P-107	96° 0' 59.562" E	27° 23' 27.480" N
P-108	96° 0' 59.513" E	27° 23' 28.007" N
P-109	96° 0' 59.167" E	27° 23' 29.533" N
P-110	96° 0' 59.176" E	27° 23' 30.706" N
P-111	96° 0' 59.013" E	27° 23' 32.117" N
P-112	96° 0' 58.916" E	27° 23' 33.021" N
P-113	96° 0' 58.783" E	27° 23' 34.086" N
P-114	96° 0' 58.627" E	27° 23' 35.347" N
P-115	96° 0' 58.614" E	27° 23' 35.470" N
P-116	96° 0' 58.748" E	27° 23' 35.704" N
P-117	96° 0' 58.976" E	27° 23' 36.102" N
P-118	96° 0' 59.146" E	27° 23' 36.323" N
P-119	96° 0' 59.231" E	27° 23' 36.481" N
P-120	96° 0' 59.349" E	27° 23' 36.682" N
P-121	96° 0' 59.473" E	27° 23' 36.878" N
P-122	96° 0' 59.637" E	27° 23' 37.166" N
P-123	96° 0' 59.788" E	27° 23' 37.425" N
P-124	96° 0' 59.961" E	27° 23' 37.731" N
P-125	96° 1' 0.097" E	27° 23' 37.952" N
P-126	96° 1' 0.218" E	27° 23' 38.161" N
P-127	96° 1' 0.325" E	27° 23' 38.373" N
P-128	96° 1' 0.409" E	27° 23' 38.497" N
P-129	96° 1' 0.538" E	27° 23' 38.559" N
P-130	96° 1' 0.702" E	27° 23' 38.643" N
P-131	96° 1' 0.796" E	27° 23' 38.687" N
P-132	96° 1' 0.957" E	27° 23' 38.766" N
P-133	96° 1' 1.117" E	27° 23' 38.830" N
P-134	96° 1' 1.267" E	27° 23' 38.904" N
P-135	96° 1' 1.468" E	27° 23' 38.997" N
P-136	96° 1' 1.802" E	27° 23' 39.145" N
P-137	96° 1' 1.995" E	27° 23' 39.241" N
P-138	96° 1' 2.305" E	27° 23' 39.379" N
P-139	96° 1' 2.562" E	27° 23' 39.502" N
P-140	96° 1' 2.852" E	27° 23' 39.635" N
P-141	96° 1' 3.059" E	27° 23' 39.736" N
P-142	96° 1' 3.311" E	27° 23' 39.847" N
P-143	96° 1' 3.564" E	27° 23' 39.974" N

Provisional Cardinal Points for Namchik Namphuk Block

P-144	96° 1' 3.805" E	27° 23' 40.081" N
P-145	96° 1' 4.083" E	27° 23' 40.214" N
P-146	96° 1' 4.285" E	27° 23' 40.303" N
P-147	96° 1' 4.508" E	27° 23' 40.422" N
P-148	96° 1' 4.701" E	27° 23' 40.515" N
P-149	96° 1' 4.812" E	27° 23' 40.567" N
P-150	96° 1' 4.961" E	27° 23' 40.626" N
P-151	96° 1' 5.084" E	27° 23' 40.685" N
P-152	96° 1' 5.192" E	27° 23' 40.726" N
P-153	96° 1' 5.241" E	27° 23' 40.688" N
P-154	96° 1' 5.370" E	27° 23' 40.559" N
P-155	96° 1' 5.562" E	27° 23' 40.387" N
P-156	96° 1' 5.759" E	27° 23' 40.210" N
P-157	96° 1' 5.917" E	27° 23' 40.070" N
P-158	96° 1' 6.137" E	27° 23' 39.872" N
P-159	96° 1' 6.370" E	27° 23' 39.646" N
P-160	96° 1' 6.541" E	27° 23' 39.459" N
P-161	96° 1' 6.611" E	27° 23' 39.375" N
P-162	96° 1' 6.736" E	27° 23' 39.287" N
P-163	96° 1' 6.787" E	27° 23' 39.240" N
P-164	96° 1' 6.832" E	27° 23' 39.205" N
P-165	96° 1' 6.917" E	27° 23' 39.157" N
P-166	96° 1' 7.011" E	27° 23' 39.108" N
P-167	96° 1' 7.080" E	27° 23' 39.084" N
P-168	96° 1' 7.120" E	27° 23' 39.062" N
P-169	96° 1' 7.207" E	27° 23' 38.996" N
P-170	96° 1' 7.305" E	27° 23' 38.875" N
P-171	96° 1' 7.388" E	27° 23' 38.744" N
P-172	96° 1' 7.572" E	27° 23' 38.478" N
P-173	96° 1' 7.749" E	27° 23' 38.216" N
P-174	96° 1' 7.953" E	27° 23' 37.951" N
P-175	96° 1' 8.176" E	27° 23' 37.653" N
P-176	96° 1' 8.411" E	27° 23' 37.374" N
P-177	96° 1' 8.659" E	27° 23' 37.036" N
P-178	96° 1' 8.807" E	27° 23' 36.866" N
P-179	96° 1' 9.049" E	27° 23' 36.628" N
P-180	96° 1' 9.269" E	27° 23' 36.441" N
P-181	96° 1' 9.431" E	27° 23' 36.349" N
P-182	96° 1' 9.608" E	27° 23' 36.168" N
P-183	96° 1' 9.782" E	27° 23' 35.973" N
P-184	96° 1' 9.905" E	27° 23' 35.806" N
P-185	96° 1' 10.035" E	27° 23' 35.617" N
P-186	96° 1' 10.155" E	27° 23' 35.447" N
P-187	96° 1' 10.283" E	27° 23' 35.282" N
P-188	96° 1' 10.400" E	27° 23' 35.135" N
P-189	96° 1' 10.499" E	27° 23' 35.043" N
P-190	96° 1' 10.655" E	27° 23' 34.954" N
P-191	96° 1' 10.880" E	27° 23' 34.825" N

Provisional Cardinal Points for Namchik Namphuk Block

P-192	96° 1' 11.082" E	27° 23' 34.718" N
P-193	96° 1' 11.198" E	27° 23' 34.630" N
P-194	96° 1' 11.258" E	27° 23' 34.583" N
P-195	96° 1' 11.361" E	27° 23' 34.465" N
P-196	96° 1' 11.465" E	27° 23' 34.346" N
P-197	96° 1' 11.587" E	27° 23' 34.179" N
P-198	96° 1' 11.687" E	27° 23' 34.017" N
P-199	96° 1' 11.820" E	27° 23' 33.808" N
P-200	96° 1' 11.925" E	27° 23' 33.622" N
P-201	96° 1' 12.026" E	27° 23' 33.440" N
P-202	96° 1' 12.136" E	27° 23' 33.239" N
P-203	96° 1' 12.264" E	27° 23' 32.952" N
P-204	96° 1' 12.337" E	27° 23' 32.752" N
P-205	96° 1' 12.399" E	27° 23' 32.602" N
P-206	96° 1' 12.460" E	27° 23' 32.505" N
P-207	96° 1' 12.514" E	27° 23' 32.462" N
P-208	96° 1' 12.588" E	27° 23' 32.443" N
P-209	96° 1' 12.782" E	27° 23' 32.459" N
P-210	96° 1' 12.999" E	27° 23' 32.475" N
P-211	96° 1' 13.175" E	27° 23' 32.471" N
P-212	96° 1' 13.357" E	27° 23' 32.452" N
P-213	96° 1' 13.624" E	27° 23' 32.402" N
P-214	96° 1' 13.916" E	27° 23' 32.293" N
P-215	96° 1' 14.133" E	27° 23' 32.208" N
P-216	96° 1' 14.343" E	27° 23' 32.088" N
P-217	96° 1' 14.607" E	27° 23' 31.917" N
P-218	96° 1' 14.800" E	27° 23' 31.794" N
P-219	96° 1' 15.084" E	27° 23' 31.592" N
P-220	96° 1' 15.273" E	27° 23' 31.428" N
P-221	96° 1' 15.464" E	27° 23' 31.241" N
P-222	96° 1' 15.626" E	27° 23' 31.055" N
P-223	96° 1' 15.783" E	27° 23' 30.889" N
P-224	96° 1' 15.901" E	27° 23' 30.762" N
P-225	96° 1' 16.061" E	27° 23' 30.581" N
P-226	96° 1' 16.208" E	27° 23' 30.470" N
P-227	96° 1' 16.373" E	27° 23' 30.373" N
P-228	96° 1' 16.519" E	27° 23' 30.316" N
P-229	96° 1' 16.858" E	27° 23' 30.239" N
P-230	96° 1' 17.005" E	27° 23' 30.250" N
P-231	96° 1' 17.194" E	27° 23' 30.287" N
P-232	96° 1' 17.480" E	27° 23' 30.318" N
P-233	96° 1' 17.642" E	27° 23' 30.339" N
P-234	96° 1' 17.839" E	27° 23' 30.328" N
P-235	96° 1' 18.038" E	27° 23' 30.303" N
P-236	96° 1' 18.341" E	27° 23' 30.252" N
P-237	96° 1' 18.520" E	27° 23' 30.193" N
P-238	96° 1' 18.772" E	27° 23' 30.115" N
P-239	96° 1' 18.997" E	27° 23' 30.028" N

Provisional Cardinal Points for Namchik Namphuk Block

P-240	96° 1' 19.218" E	27° 23' 29.940" N
P-241	96° 1' 19.472" E	27° 23' 29.804" N
P-242	96° 1' 19.700" E	27° 23' 29.693" N
P-243	96° 1' 20.025" E	27° 23' 29.583" N
P-244	96° 1' 20.303" E	27° 23' 29.494" N
P-245	96° 1' 20.444" E	27° 23' 29.443" N
P-246	96° 1' 20.633" E	27° 23' 29.442" N
P-247	96° 1' 20.891" E	27° 23' 29.437" N
P-248	96° 1' 21.095" E	27° 23' 29.436" N
P-249	96° 1' 21.280" E	27° 23' 29.449" N
P-250	96° 1' 21.438" E	27° 23' 29.469" N
P-251	96° 1' 21.705" E	27° 23' 29.512" N
P-252	96° 1' 21.992" E	27° 23' 29.581" N
P-253	96° 1' 22.236" E	27° 23' 29.627" N
P-254	96° 1' 22.565" E	27° 23' 29.703" N
P-255	96° 1' 22.818" E	27° 23' 29.780" N
P-256	96° 1' 23.020" E	27° 23' 29.841" N
P-257	96° 1' 23.484" E	27° 23' 29.941" N
P-258	96° 1' 23.732" E	27° 23' 29.983" N
P-259	96° 1' 24.111" E	27° 23' 30.047" N
P-260	96° 1' 24.417" E	27° 23' 30.116" N
P-261	96° 1' 24.692" E	27° 23' 30.158" N
P-262	96° 1' 24.963" E	27° 23' 30.214" N
P-263	96° 1' 25.303" E	27° 23' 30.259" N
P-264	96° 1' 25.657" E	27° 23' 30.275" N
P-265	96° 1' 25.990" E	27° 23' 30.326" N
P-266	96° 1' 26.271" E	27° 23' 30.341" N
P-267	96° 1' 26.368" E	27° 23' 30.352" N
P-268	96° 1' 26.661" E	27° 23' 30.374" N
P-269	96° 1' 27.097" E	27° 23' 30.392" N
P-270	96° 1' 27.605" E	27° 23' 30.401" N
P-271	96° 1' 28.029" E	27° 23' 30.392" N
P-272	96° 1' 28.405" E	27° 23' 30.360" N
P-273	96° 1' 28.839" E	27° 23' 30.316" N
P-274	96° 1' 29.292" E	27° 23' 30.275" N
P-275	96° 1' 29.859" E	27° 23' 30.167" N
P-276	96° 1' 30.469" E	27° 23' 30.064" N
P-277	96° 1' 30.984" E	27° 23' 29.912" N
P-278	96° 1' 31.324" E	27° 23' 29.784" N
P-279	96° 1' 31.567" E	27° 23' 29.690" N
P-280	96° 1' 31.663" E	27° 23' 29.660" N
P-281	96° 1' 31.907" E	27° 23' 29.579" N
P-282	96° 1' 32.082" E	27° 23' 29.496" N
P-283	96° 1' 32.037" E	27° 23' 29.391" N
P-284	96° 1' 31.931" E	27° 23' 29.197" N
P-285	96° 1' 31.830" E	27° 23' 29.014" N
P-286	96° 1' 31.757" E	27° 23' 28.864" N
P-287	96° 1' 31.582" E	27° 23' 28.524" N

Provisional Cardinal Points for Namchik Namphuk Block

P-288	96° 1' 31.415" E	27° 23' 28.212" N
P-289	96° 1' 31.265" E	27° 23' 27.906" N
P-290	96° 1' 31.133" E	27° 23' 27.606" N
P-291	96° 1' 31.059" E	27° 23' 27.436" N
P-292	96° 1' 30.965" E	27° 23' 27.235" N
P-293	96° 1' 30.938" E	27° 23' 26.926" N
P-294	96° 1' 31.249" E	27° 23' 26.631" N
P-295	96° 1' 31.365" E	27° 23' 26.487" N
P-296	96° 1' 31.480" E	27° 23' 26.344" N
P-297	96° 1' 31.637" E	27° 23' 26.169" N
P-298	96° 1' 31.867" E	27° 23' 25.982" N
P-299	96° 1' 31.957" E	27° 23' 25.907" N
P-300	96° 1' 31.990" E	27° 23' 25.831" N
P-301	96° 1' 32.003" E	27° 23' 25.738" N
P-302	96° 1' 31.991" E	27° 23' 25.594" N
P-303	96° 1' 32.010" E	27° 23' 25.453" N
P-304	96° 1' 32.057" E	27° 23' 25.338" N
P-305	96° 1' 32.144" E	27° 23' 25.274" N
P-306	96° 1' 32.205" E	27° 23' 25.249" N
P-307	96° 1' 32.298" E	27° 23' 25.264" N
P-308	96° 1' 32.400" E	27° 23' 25.338" N
P-309	96° 1' 32.536" E	27° 23' 25.390" N
P-310	96° 1' 32.721" E	27° 23' 25.406" N
P-311	96° 1' 32.855" E	27° 23' 25.355" N
P-312	96° 1' 33.025" E	27° 23' 25.393" N
P-313	96° 1' 33.211" E	27° 23' 25.440" N
P-314	96° 1' 33.527" E	27° 23' 25.458" N
P-315	96° 1' 33.842" E	27° 23' 25.416" N
P-316	96° 1' 34.325" E	27° 23' 25.327" N
P-317	96° 1' 34.631" E	27° 23' 25.258" N
P-318	96° 1' 34.876" E	27° 23' 25.191" N
P-319	96° 1' 35.188" E	27° 23' 25.078" N
P-320	96° 1' 35.383" E	27° 23' 25.005" N
P-321	96° 1' 35.554" E	27° 23' 24.939" N
P-322	96° 1' 35.896" E	27° 23' 24.787" N
P-323	96° 1' 36.098" E	27° 23' 24.697" N
P-324	96° 1' 36.364" E	27° 23' 24.557" N
P-325	96° 1' 36.592" E	27° 23' 24.446" N
P-326	96° 1' 36.865" E	27° 23' 24.292" N
P-327	96° 1' 37.093" E	27° 23' 24.174" N
P-328	96° 1' 37.244" E	27° 23' 24.085" N
P-329	96° 1' 37.399" E	27° 23' 23.985" N
P-330	96° 1' 37.483" E	27° 23' 23.938" N
P-331	96° 1' 37.608" E	27° 23' 23.870" N
P-332	96° 1' 37.675" E	27° 23' 23.800" N
P-333	96° 1' 37.788" E	27° 23' 23.702" N
P-334	96° 1' 37.844" E	27° 23' 23.635" N
P-335	96° 1' 37.998" E	27° 23' 23.474" N

Provisional Cardinal Points for Namchik Namphuk Block

P-336	96° 1' 38.120" E	27° 23' 23.316" N
P-337	96° 1' 38.278" E	27° 23' 23.158" N
P-338	96° 1' 38.446" E	27° 23' 22.983" N
P-339	96° 1' 38.602" E	27° 23' 22.907" N
P-340	96° 1' 38.789" E	27° 23' 22.855" N
P-341	96° 1' 38.977" E	27° 23' 22.820" N
P-342	96° 1' 39.081" E	27° 23' 22.814" N
P-343	96° 1' 39.253" E	27° 23' 22.783" N
P-344	96° 1' 39.379" E	27° 23' 22.746" N
P-345	96° 1' 39.544" E	27° 23' 22.698" N
P-346	96° 1' 39.737" E	27° 23' 22.622" N
P-347	96° 1' 39.960" E	27° 23' 22.506" N
P-348	96° 1' 40.131" E	27° 23' 22.407" N
P-349	96° 1' 40.320" E	27° 23' 22.283" N
P-350	96° 1' 40.542" E	27° 23' 22.123" N
P-351	96° 1' 40.801" E	27° 23' 21.946" N
P-352	96° 1' 41.071" E	27° 23' 21.764" N
P-353	96° 1' 41.230" E	27° 23' 21.602" N
P-354	96° 1' 41.314" E	27° 23' 21.514" N
P-355	96° 1' 41.416" E	27° 23' 21.370" N
P-356	96° 1' 41.466" E	27° 23' 21.253" N
P-357	96° 1' 41.525" E	27° 23' 21.123" N
P-358	96° 1' 41.569" E	27° 23' 20.976" N
P-359	96° 1' 41.603" E	27° 23' 20.794" N
P-360	96° 1' 41.617" E	27° 23' 20.631" N
P-361	96° 1' 41.628" E	27° 23' 20.476" N
P-362	96° 1' 41.614" E	27° 23' 20.343" N
P-363	96° 1' 41.611" E	27° 23' 20.219" N
P-364	96° 1' 41.598" E	27° 23' 20.111" N
P-365	96° 1' 41.579" E	27° 23' 19.944" N
P-366	96° 1' 41.566" E	27° 23' 19.807" N
P-367	96° 1' 41.576" E	27° 23' 19.648" N
P-368	96° 1' 41.646" E	27° 23' 19.552" N
P-369	96° 1' 41.765" E	27° 23' 19.519" N
P-370	96° 1' 41.885" E	27° 23' 19.517" N
P-371	96° 1' 41.992" E	27° 23' 19.536" N
P-372	96° 1' 42.200" E	27° 23' 19.561" N
P-373	96° 1' 42.446" E	27° 23' 19.582" N
P-374	96° 1' 42.610" E	27° 23' 19.595" N
P-375	96° 1' 42.906" E	27° 23' 19.537" N
P-376	96° 1' 43.187" E	27° 23' 19.604" N
P-377	96° 1' 43.439" E	27° 23' 19.659" N
P-378	96° 1' 43.735" E	27° 23' 19.734" N
P-379	96° 1' 44.040" E	27° 23' 19.809" N
P-380	96° 1' 44.360" E	27° 23' 19.884" N
P-381	96° 1' 44.758" E	27° 23' 20.034" N
P-382	96° 1' 44.992" E	27° 23' 20.115" N
P-383	96° 1' 45.317" E	27° 23' 20.224" N

Provisional Cardinal Points for Namchik Namphuk Block

P-384	96° 1' 45.642" E	27° 23' 20.299" N
P-385	96° 1' 45.976" E	27° 23' 20.394" N
P-386	96° 1' 46.251" E	27° 23' 20.423" N
P-387	96° 1' 46.411" E	27° 23' 20.458" N
P-388	96° 1' 46.710" E	27° 23' 20.464" N
P-389	96° 1' 46.955" E	27° 23' 20.455" N
P-390	96° 1' 47.200" E	27° 23' 20.432" N
P-391	96° 1' 47.464" E	27° 23' 20.426" N
P-392	96° 1' 47.654" E	27° 23' 20.418" N
P-393	96° 1' 47.815" E	27° 23' 20.415" N
P-394	96° 1' 47.500" E	27° 23' 20.883" N
P-395	96° 1' 47.222" E	27° 23' 21.317" N
P-396	96° 1' 47.414" E	27° 23' 21.374" N
P-397	96° 1' 49.561" E	27° 23' 21.745" N
P-398	96° 1' 51.063" E	27° 23' 21.939" N
P-399	96° 1' 52.448" E	27° 23' 22.126" N
P-400	96° 1' 53.796" E	27° 23' 22.406" N
P-401	96° 1' 55.446" E	27° 23' 22.767" N
P-402	96° 1' 56.619" E	27° 23' 23.015" N
P-403	96° 1' 58.541" E	27° 23' 23.339" N

Note: The provisional cardinal points are in WGS84 coordinate system. These points are extracted through ArcGIS software after georeferencing of block boundary and ongrund DGPS survey is required to acertain the exact location of the points.