MAP KO SET KARNA, NORTH DOONDHNA AUR APNI POSITION DOONDHNA

INTRODUCTION

MAP KO SET KARNE KA MATLAB HAI MAP KO NORTH KE SAATH SAMANTAR KARNA.

HAR EK ZAMININ NISHAN DUSARE ZAMINI NISHAN KE RELATION MEIN MAP PAR HOTA HAI. ISLIYE ZARURI HAI KI APP MAP PAR APNI SAHI POSITION DOONDH PAYE AUR BAKI ZAMINI NISHAN SE SAMBANDH BANA PAYE.

APNI PROSITION MAP PAR DOONDHNA ASAN HAI LEKIN PRACTICE CHHAIYE. EK BAR APNE APNI POSITION MAP PAR DOONDH LI TOH BAKI MAP KO ZAMIN SE MILANE MEIN MUSHKIL NAHIN HOGI.

PREVIEW

- UDDESH
- PART-I MAP KO SET KARNA AUR NORTH DOONDHNA.
- PART-II NORTH AUR APNI POSITION DOONDHNA.
- CONCLUSION

PART I

MAP SET KARNE KE TARIQUE

MAP KO SET KARNA

- **MAP KO ISLIYE SET KARTE HAIN KI TAKI JO ZAMINI NISHAN MAP PAR HAIN UNKA ZAMIN PAR ASLI NISHAN KE SAATH POSITION AUR DIRECTION SET HO JAYEN.**

- **ISME MAP KA TRUE NORTH ZAMIN KE NORTH SE SAMANTAR HOTA HAI.**

- **MAP KO SET KARNE KE DO TARIQUE HAIN :-**

  (a) COMPASS KI MADAT SE.

  (b) ZAMINI NISHAN KI MADAD SE .

COMPASS KI MADAT SE

COMPASS KI MADAT SE

- COMPASS KO KHOLEN
- MAP KE UPAR LAGAYE AUR MAGNETIC LINE KE SAATH MILAYEN. YEAH EK KALI LINE HOTI HAI JISKE KINARE PAR LONGITUDE LIKHA HOTA HAI
- AB MAP KO AEESE GHUMAEN TAKI ARROW HEAD DIRECTION MARK KE NICCHE AAJAYE.
- AB MAP MAGNETIC NORTH KE LIYE SET HAI.

GRID LINE

MAGNETIC NORTH LINE

TONGUE KA KATAO MN LINE PAR HO

HAIR LINE MN LINE KE UPPAR SAMANTAR HO

ARROW HEAD AUR DIRECTION MARK

AB MAP KO AEESE GHUMAEN TAKI ARROW HEAD DIRECTION MARK KE NICCHE AAJAYE.

ZAMINI NISHAN KI MADAT SE

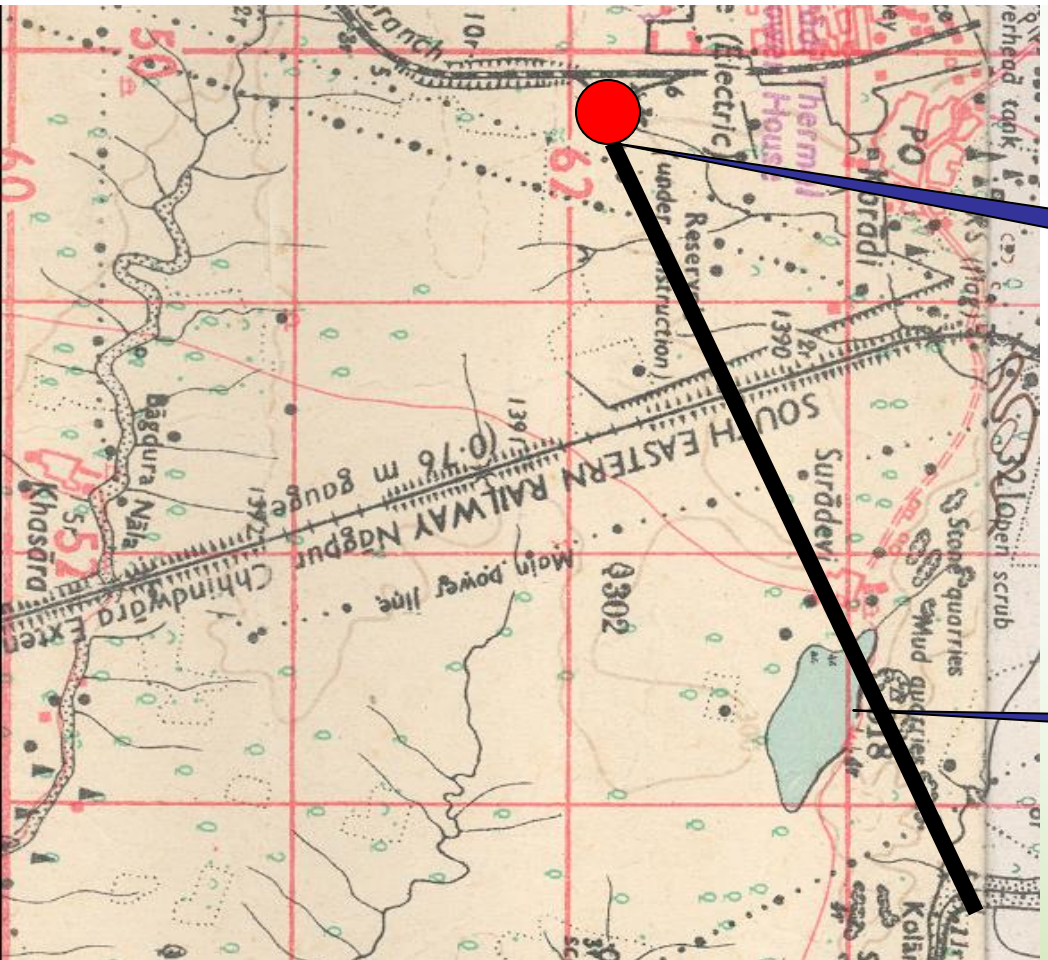
JAB OWN POSITION PATA HO : JAB COMPASS NA HO

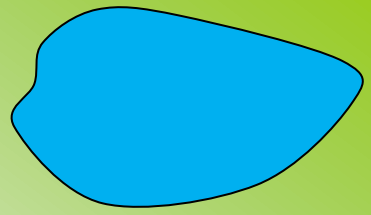
- APNE POSITION SE ZAMIN PAR AEESA LANDMARK CHHUNO JO KI MAP PA ASANI SE PEHCHAN JA SAKTA.
- AB APNI POSITION AUR MAP PAR US NISHAN TAK EK LINE KHICHOO
- MAP KO AEESE TURN KARO TAKI MAP PAR KICCHI LINE ZAMIN PAR LANDMARK KI TARAF POINT KARE.
- ISI PRAKAR EK DO AUR ZAMINI NISHAN KE SAATH MAP KO ALIGN KARO.

- **MANLO APNE ZAMIN AUR MAP PAR TALAB KO PEHCHA LIYA HAI**

- **IS SAMAY MAP PAR TALAB AUR ZAMIN PAR TALAB ALAG ALAG DISHA MAIN HAIN.**

- **APNI POSITION AUR MAP PAR TALAB KE BICH EK LINE KHICHHOO**





•OWN POSITION

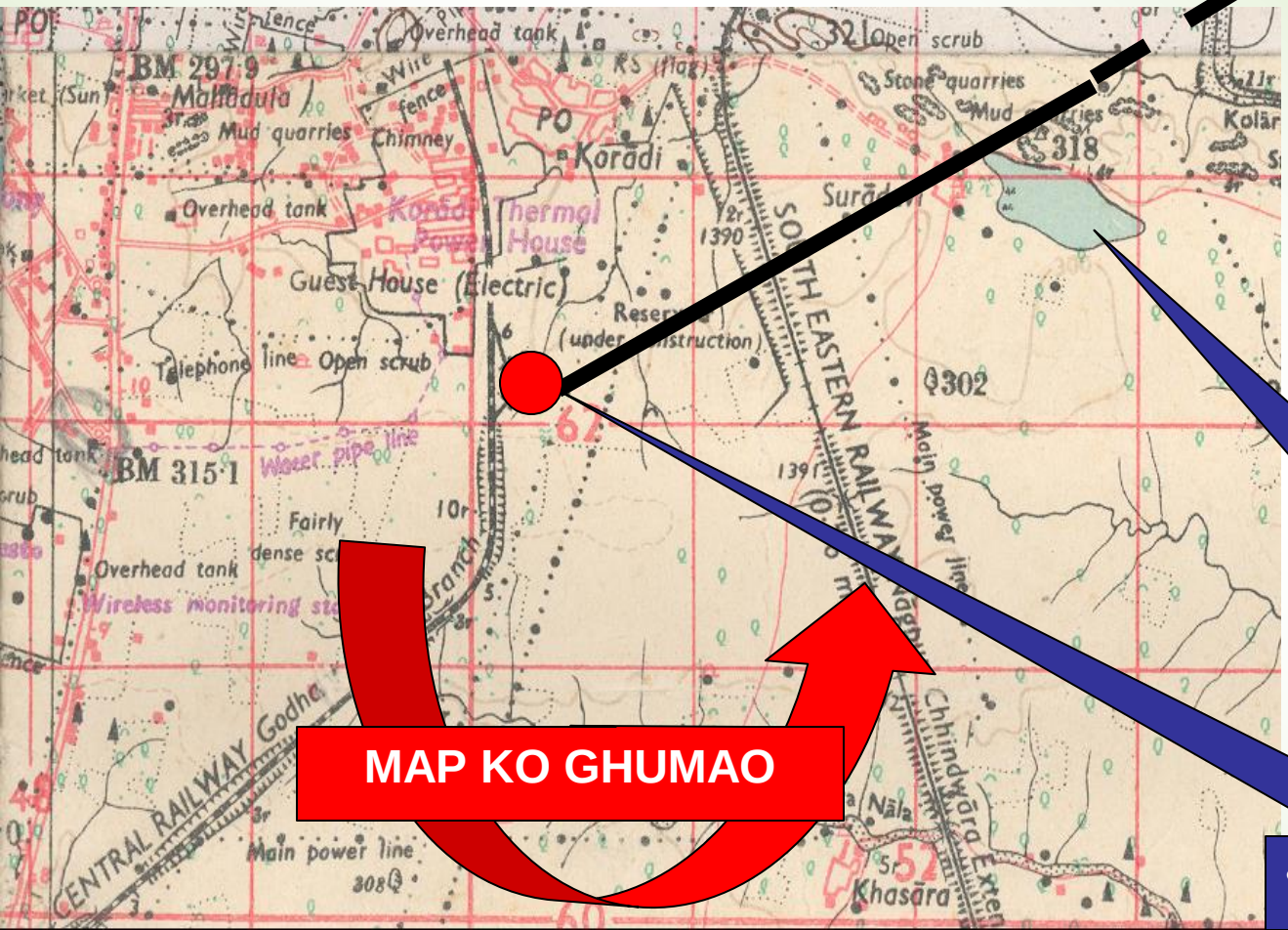
ZAMIN PAR TALAB

MAP PAR TALAB

- **AB MAP KO AEESE GHUMAOO KI APNI POSITION SE MAP PAR TALAB TAK JATI LINE ZAMIN PAR TALAB KE RUKH MEIN HO JAYE.**

- **ISI PRAKAR MAP AUR ZAMIN PAR EK – DO AUR NISHAN KE SAATH SIDH NAPO**

- **MAP ZAMIN KE SAATH ALIGN HO JAYEGA**

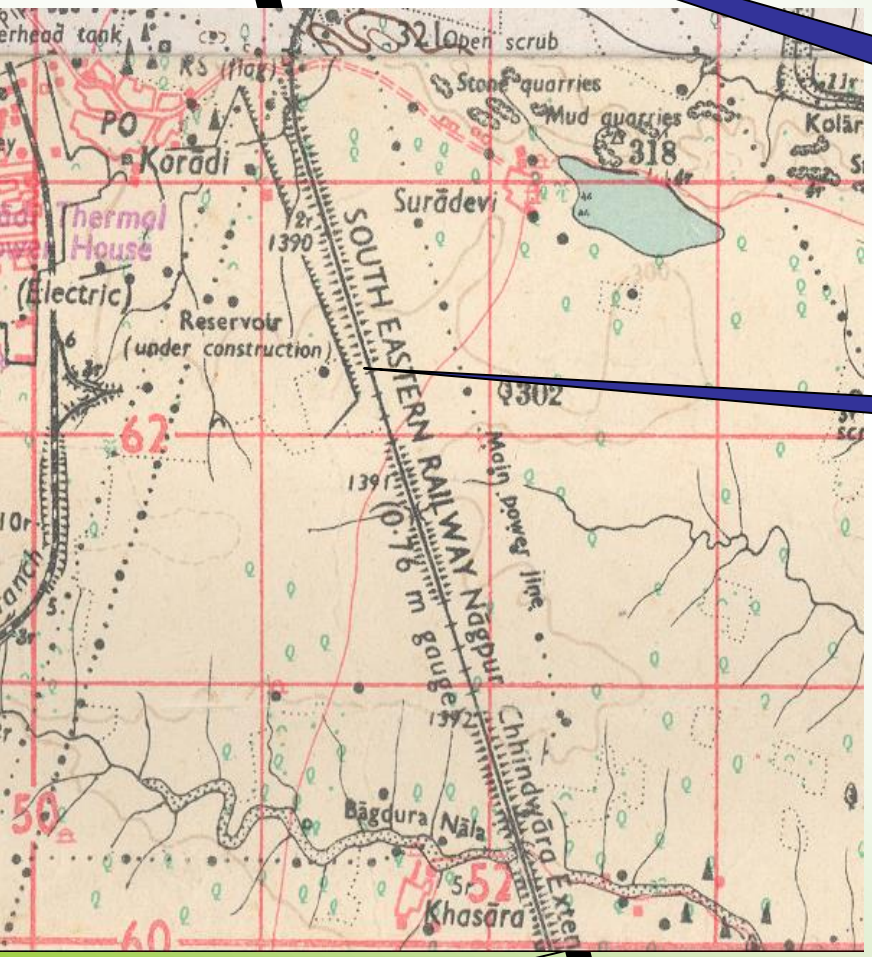


JAB OWN POSITION NAHI PATA HO AUR COMPASS NA HO

- **TARIQUA 1.**
  - **EK ROAD YAH RAILWAY LINE CHHUNO.**
  - **MAP PAR ROAD AUR ZAMIN PAR ROAD KO EK HI DISHA MEIN LAGAO. MAP SET HO JAYEGA.**
- **TARIQUA 2.**
  - **AGAR ROAD YAH RAILWAY LINE NAHI HAI TOH DO AEESE NISHAN CHUNO JO EK LINE MEIN HAIN.**
  - **AB DONO NISHAN PAR EK LINE KHICHHOO AUR MAP AUR ZAMIN EK NISHAN KI DISHA MILAO.**

- **AGAR HUM RAILWAY LINE PAR HOO.**

- **MAP KE RAILWAY LINE AUR ZAMIN KE RAILWAY LINE KO SAMANTAR KARO AUR EK HI LINE MEIN MILAO.**



ZAMIN PAR RAILWAY LINE

MAP PAR RAILWAY LINE

ZAMIN PAR RAILWAY LINE

NORTH KI MADAT SE

- **NORTH KA PATA LAGAO.**
  - **COMPASS KI MADAT SE**
  - **SURAJ KAHAN SE PRAKAT HO RAHA HAI----USSE NORTH KA PATA LAGAO**
  - **MANDIR AUR MASJID KE RUKH SE**
  - **DHRUV TARE SE**

- **MAP KA UPPARI BHAG KO NORTH KE DISHA MEIN RAKHO.**

- **MAP NORTH KE SAATH ALIGN HAI.**

PART II

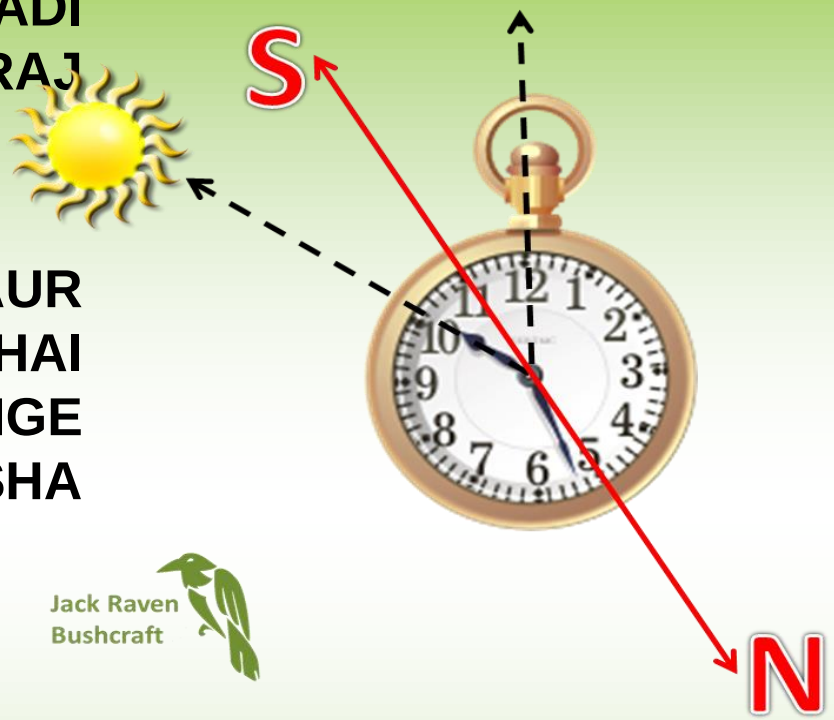
NORTH AUR APNI POSITION KA PATA LAGANA

BINA COMPASS KE

BINA COMPASS KE

- **WRIST WATCH KI MADAT SE . GHADI KI GHANTE WALI SOOEE KO SURAJ KI TARAK KAREN.**

- **JO KON IS GHANTEE KE SOOEE AUR 12 BAJE KI LINE MEIN BANTA HAI USKO AGAR DOIIVIVJIT KARENGE TOH WHO LINE SOUTH KI DISHA DIKHAYEGI.**



- **YEAH TARUIQUA KHALI EQUATER KE UTTARI ILAQUE MEIN KARGAR HAI.**

- **JO KON HOAA TAH WHO HAR SAMAY 180 DEGREES SE KAM HONA CHAIYYE.**

BINA COMPASS KE

- **NORTH KA PATA LAGAO.**
  - **PATA KARO SURAJ KAHAN SE PRAKAT HO RAHA HAI. YEAH EAST HAI. ISKO APNE DAHINE HAAT RALHTE HUE JIS DISHA MEIN AAP KA MOOH HAI WHO NORTH HAI.**
  - **MANDIR KE DARWAZE EAST KI TARAF KHULTE HAIN AUR AUR MASJID KE DARWAZE WEST KI TARAF KHULTE HAIN. AB HUM NORTH KA PATA LAGA SAKTE HAIN .**

BINA COMPASS KE

- **TARON KI MADAT SE**
  - **DHARTI PAR EQUATER SE NORTH MEIN POLE STAR UTTAR KI DISHA KO DARSHATA HAI.**
  - **POLE STAR KO KESE PEHCHANA HAI.**

APNI POSITION DOONDHNA

TARIQUE

- APNI POSITION DOONDHNA KA MATLAB HAI MAP PAR PEHCHANA HUM KIS ZAMINI NISHAN PAR KHADE HAIN AUR HAMARA GR KYA HAI.

- APNI POSITION DHOONDNE KE LIYE TWO TARIQUE HAIN:-

  - RESECTION METHOD.

    - COMPASS KE SAATH
    - BINA COMAPSS KE

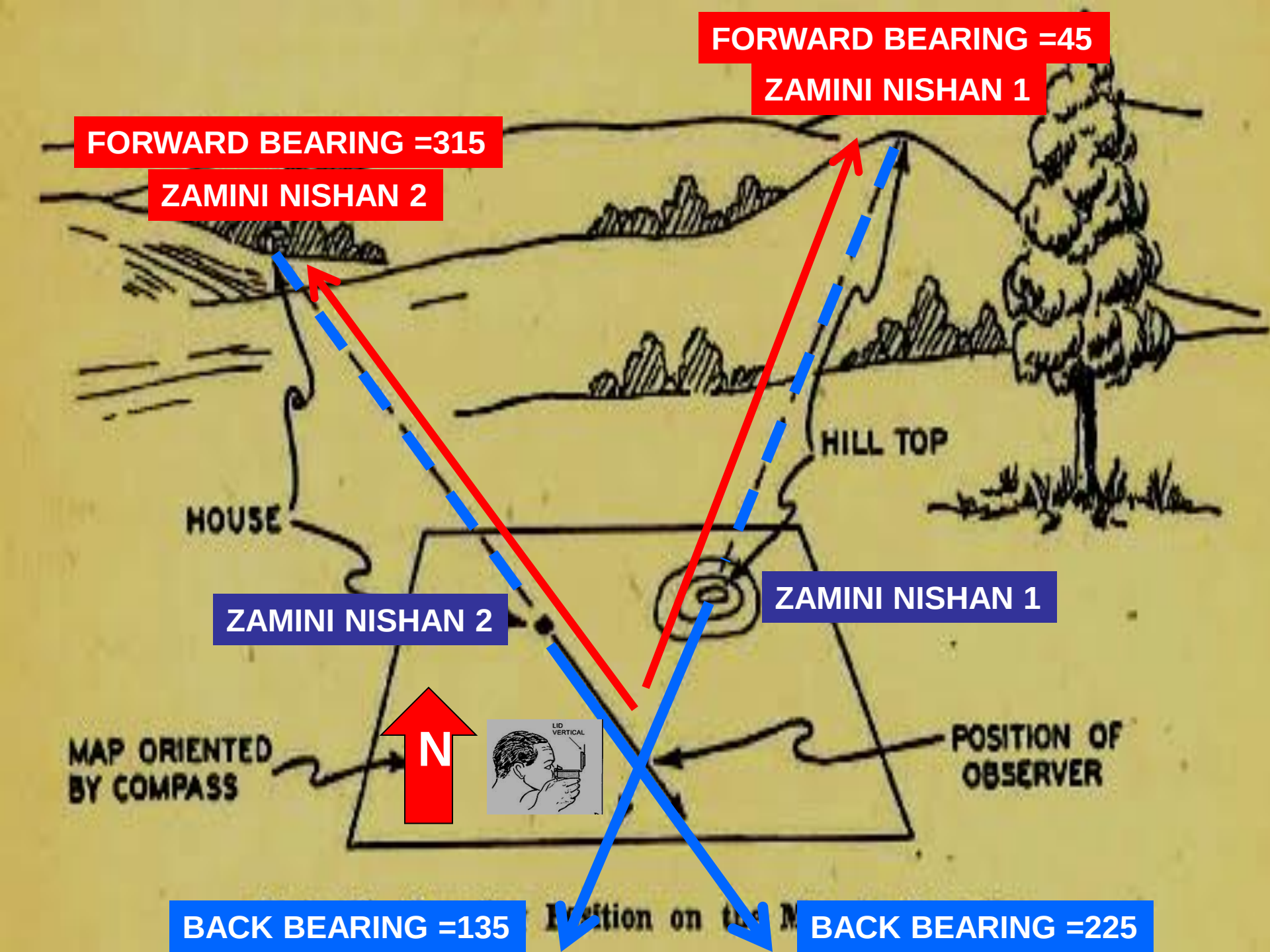
  - INSPECTION AND CONTINUOUS MAP READING.

COMPASS KE SAATH

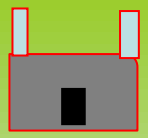
- YEAH SABSE ACCURTE TARIQUA HAI
  - MAP KO SET KARO
  - DO YAH USSE JYADA NISHAN ZAMIN PAR CHHUNO JO MAP PAR BHI HAIN
  - INKO MAP PAR MARK KARO
  - IN NISHANON KE BICH 180 DEGREE SE JYADA YEAH 30 DEGREE SE KAM FASALA NAHIN HONA CHHAIYE.
  - INKA MAGNETIC BEARING COMPASS SE LO

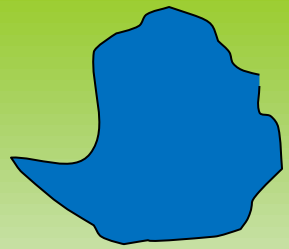
COMPASS KE SAATH

- UNKO BACK BEARING MEIN TABDIL KARO
- AGAR 180 DEGREE SE KAM HAI TOH 180 ADD KARO AUR AGAR BEARING 180 DEGREE SE JYADA HAI TOH 180 DEGREE GHATAO.
- IN BACK BEARING KO CHHUEN HUE ZAMINI NISHAN SE PLOT KAR
- JAHAN PAR YEAH DO-TEEN LINE CROSS KARTI WOHI APNI POSITION HAI.

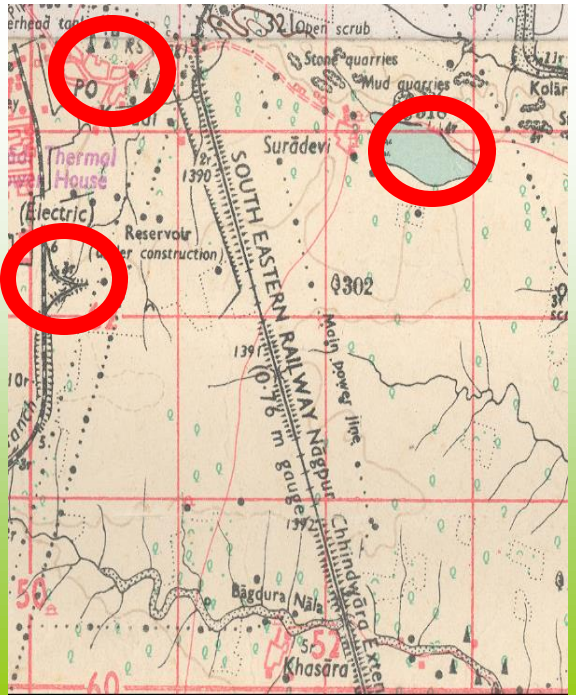

FORWARD BEARING =45
ZAMINI NISHAN 1
FORWARD BEARING =315
ZAMINI NISHAN 2
HILL TOP
HOUSE
ZAMINI NISHAN 2
ZAMINI NISHAN 1
N
LID VERTICAL
MAP ORIENTED BY COMPASS
POSITION OF OBSERVER
BACK BEARING =135
BACK BEARING =225

BINA COMPASS KE

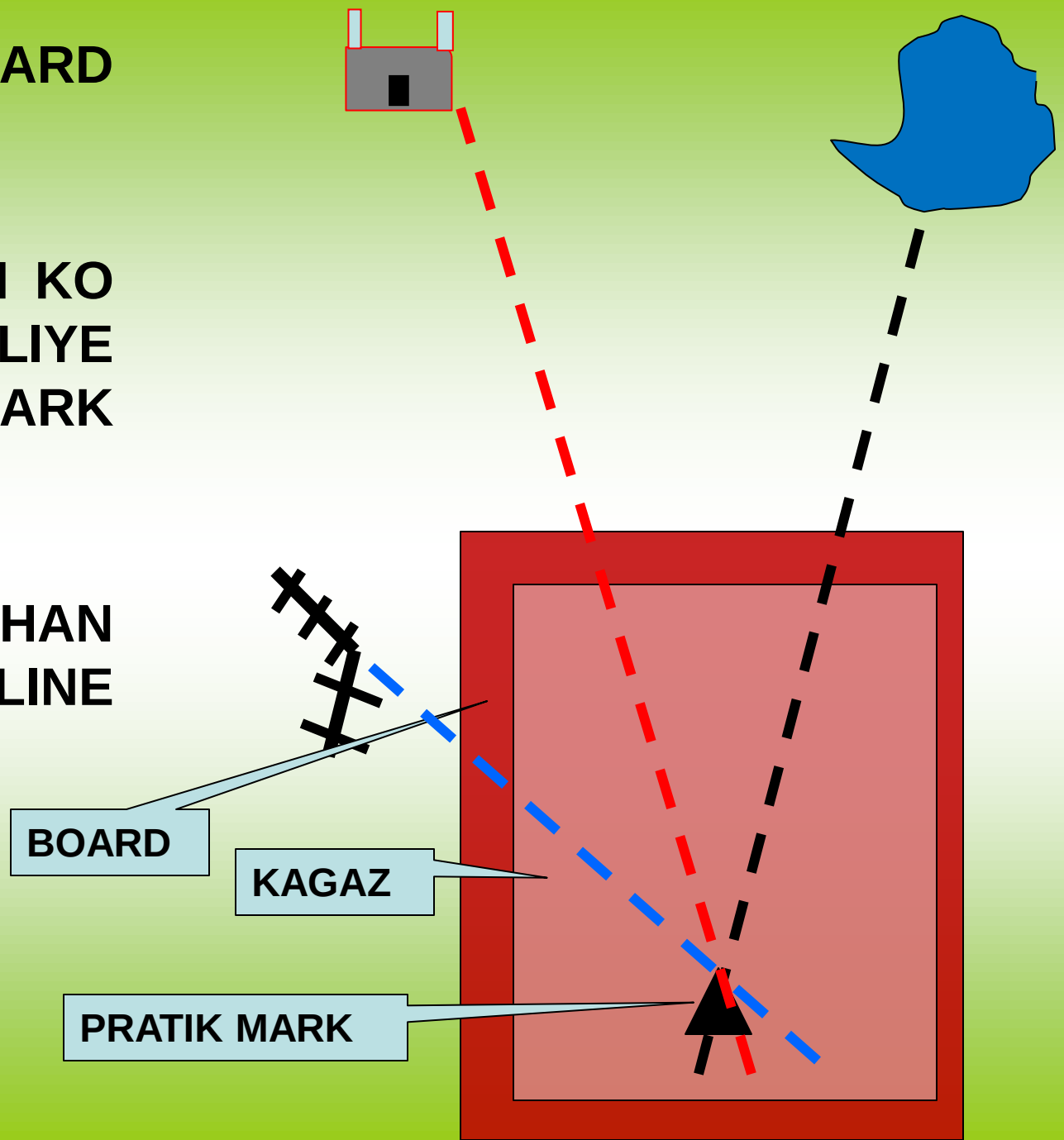




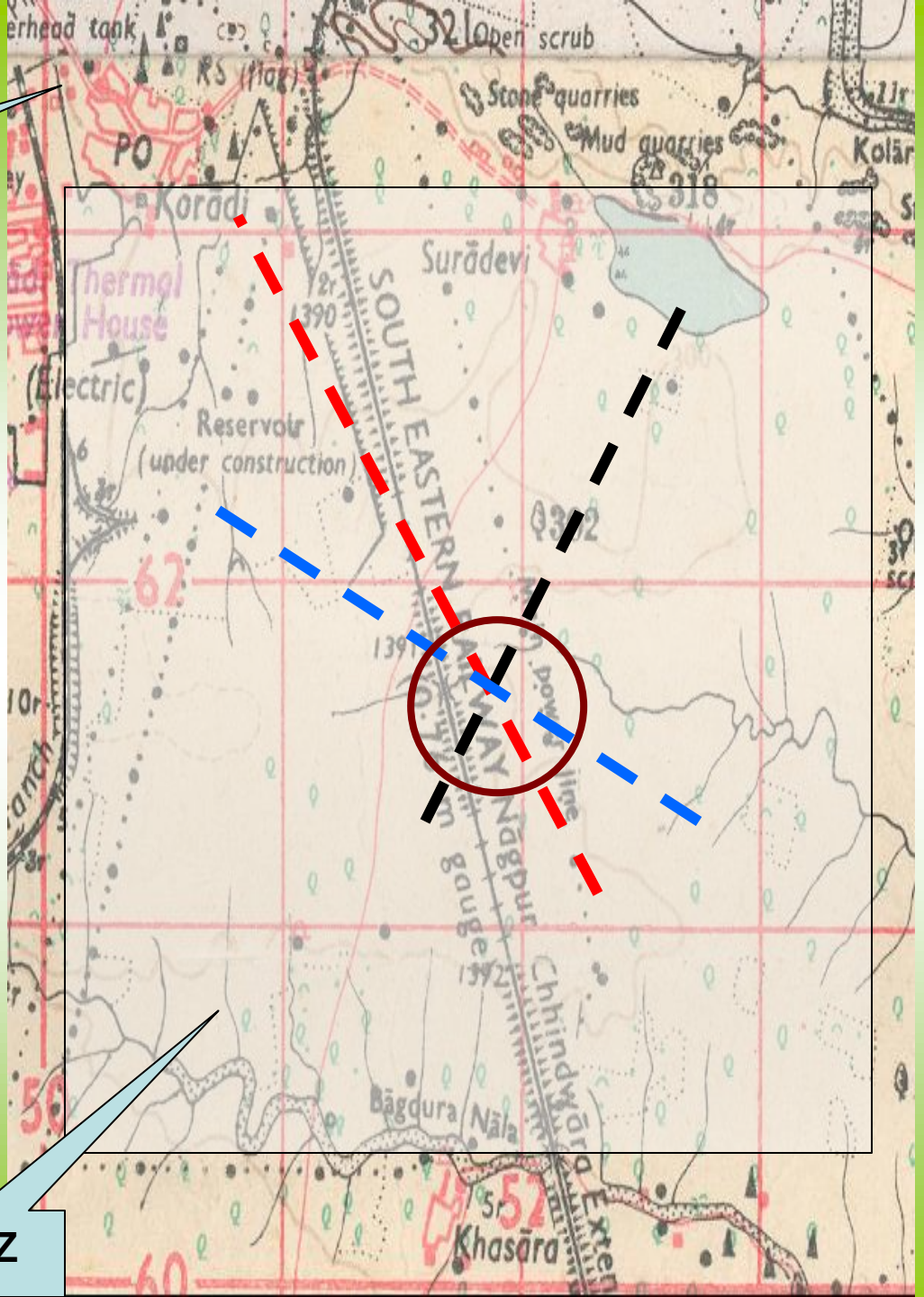
- **TEEN NISHAN CHHUNE JO MAP PAR AUR ZAMIN PAR HAIN**



- **PARADARSHI KAGAZ KO BOARD PAR LAGAYE**
- **APNE POSITION KO DIKHANE KE LIYE EK PRATIK MARK BANAYEN**
- **AB TEENON NISHAN KE LIYE LINE KHICCHEN**



- **BOARD KO HATAYEN**
- **MAP KO KAGAZ KE NICCHE RAKHE**
- **AB TEENON LINE KO ADJUST KAREN TAKI WOH DIYE HUE NISHAN KO CROSS KAREN**
- **JAHAN YEH CROSS KARENGI WHO APKA POITION HAIN**



INSPECTION METHOD

- JAB EXERCISE KI JAGAH JA RAHE HON TOH LAGATAR MAP READING KAREN.
- AATE-JATE ZAMINI NISHAN KO MAP PAR PEHCCHANE.
- AESSE JAB AAP EXERCISE LOCATION PAHUNCCHEGE TOH APKO MAP PAR APNI LOCATION KA ANDAZA RAHEGA.
- WAHAN PAHUNCH KAR AAS PASS KE ZAMINI NISHAN PEHCHANE. AUR MAP PAR BHI PEHCAHNE. DIRECTION AUR DISTANCE KA ANDAZA LAGAYEN.
- MAP KO SET KAREN
- MAP KO PEHCHHANE HUE NISHAN SE ALIGN KAREN.

CONCLUSION

PART III

MAP TO GROUND AND GROUND TO MAP

MAP TO GROUND AND GROUND TO MAP

MAP TO GROUND AND GROUND TO MAP. A SOLDIER SHOULD BE PROFICIENT TO IDENTIFY THE OBJECT ON GROUND WHOSE GR HAS BEEN GIVEN AND CAPABLE OF GIVING THE GR OF THE OBJECT WHICH HAS BEEN SHOWN ON THE GROUND. THIS CAN BE DONE ONLY ONCE OWN POSITION HAS BEEN WORKED OUT.

MAP TO GROUND AND GROUND TO MAP

MAP TO GROUND. PLOT THE GR GIVEN ON THE MAP AND IDENTIFY THE CONVENTIONAL SIGN. DRAW A LINE JOINING OWN POSITION AND THE POINT PLOTTED ON THE MAP. MEASURE THE "GRID BEARING" AND CONVERT IT TO MAGNETIC BEARING. WORK OUT THE DISTANCE ON THE MAP OF THE POINT FROM OWN POSITION. NOW TAKE A COMPASS AND THROUGH THE PRISM LOOK IN THE DIRECTION OF THE MAGNETIC DEGREE WORKED OUT AT AN APPROX DISTANCE CALCULATED FROM THE MAP. BY INSPECTION METHOD IDENTIFY THE OBJECT IN THAT GENERAL AREA.