

BIODATA

I. NAME: Girija Prasad Mohapatra

II. DESIGNATION: Additional Director General, Geological Survey of India,
(Retired)

III. DATE OF BIRTH: 11.02.1954.

IV. EDUCATIONAL QUALIFICATION: M.Sc GEOLOGY UTKAL
UNIVERSITY (1975)

V. DATE OF JOINING GSI- 6th DECEMBER, 1977, AT AP (S) CIRCLE, HYDERABAD
VI. (Superannuation 28th February 2014.)

VII. PROFESSIONAL EXPERIENCE:

**A. Geological Mapping and Mineral Investigation from 1977 to 1982;
Andhra Pradesh India**

- a. Mapping of Sedimentary terrain**
- b. Investigation for base metal (lead and zinc, Cuddapah Basin, AP**
- c. Investigation for Gold in Ramagiri Schist Belt, AP**

B. Offshore Geological mapping and Mineral Investigation. 1982 to 2006

- a. Offshore geological Mapping within EEZ of India.**
- b. Offshore geological investigation for placer minerals off North Andhra Pradesh Coast.**
- c. Geotechnical evaluation of seabed for offshore structures.**
- d. Nearshore and coastal zone monitoring off Andhra Pradesh and Tamil Nadu Coast. Including placer mineral exploration**
- e. Monitoring of coastal pollution off Andhra Pradesh and Tamil Nadu coast. (offshore investigation for Southern LPG, at Pondicherry coast, Pollution Monitoring for Essar Pelletisation Plant at Visakhapatnam, Near shore Investigation for bathymetry and sediment dynamics at North Andhra Pradesh Coast for GSI, offshore bathymetry survey for Ennore Port, Tamil Nadu. (The entrusted work was carried out as assigned to GSI**
- f. Marine geo-archaeological studies off Mahabalipuram and Pondicherry(Arikamedu) North Tamil Nadu Coast in association with Archaeological Survey of India.**

C. As Director for Marine Wing from 2006 to 2011, Supervision of Marine and coastal work undertaken by GSI, planning for acquisition of new Research Vessel, operating from Kolkata.

- D. As Director-in-Charge and Deputy Director General (October-2011 to December, 2012) operating from Mangalore, Karnatak for all technical operations of Marine Operations of GSI and Planning for acquisition of research Vessel for GSI at global Level). Continued with same job after getting promotion as Deputy Director General.**
- E. As Deputy Director General and Head of The Department of Eastern Region GSI at Kolkata from January 2013.**
- a. Planning programming and implementation of all Geological/geophysical/geochemical of the Region comprising, four states Such As Odisha, West Bengal, Jharakhand and Bihar.**
 - b. The technical job included preliminary and advanced geological and geophysical mapping, National Geo Chemical Mapping. Mineral investigations for different minerals within the Region.**
 - c. Administrative Head of the Region for all operations , state units with 1500 Government employees.**
 - d. Geotechnical and landslide studies within the region. Several engineering projects within all states were monitored.**
 - e. Financial management of the Region for the establishment and operations.**
- F. As Additional Director General, of GSI with effect from December, 2013 to February 2014.**
- Functional responsibility remained same as Deputy Director General, with additional administrative and financial power. Superannuated from Service on 28th February, 2014.**

vii. Details of technical assignment

- 1) GEOLOGICAL MAPPING OF CUDDAPAH BASIN, ANDHRA PRADESH
- 2) PROSPECTING FOR GOLD MINERALISATION IN RAMAGIRI SCHIST BELT, ANDHRA PRADESH
- 3) UNDERWENT TRAINING AT 3rd ORIENTATION COURSE, GSI TRAINING INSTITUTE.
- 4) OFFSHORE GEOLOGICAL MAPPING AND EXPLORATION BOTH EAST & WEST COAST OF INDIA
- 5) OFFSHORE GEOTECHNICAL INVESTIGATIONS OFF ANDHRA PRADESH AND TAMIL NADU COAST.
- 6) COASTAL AND NEARSHORE ZONE MAPPING OFF NORTH ANDHRA PRADESH COAST
- 7) MARINE ARCHAEOLOGICAL STUDY OFF MAHABALIPURAM AND ARIKAMEDU, TAMILNADU.
- 8) STUDY OF MORPHOLOGICAL ASPECTS OF GODAVARI DELTA AND ITS RECENT RETROGRADATIONAL PROCESSES.
- 9) MARINE REMOTE SENSING, STUDY OF COASTAL PROCESSES AND VALIDATION OF IRS P-4, OCEAN COLOUR MONITORING SENSOR DATA IN COLLABORATION WITH SPACE APPLICATION CENTRE, AHMEDABAD.
- 10) STUDY OF THE GEOLOGICAL IMPACT OF TSUNAMI (RECENT) ON COASTAL MORPHOLOGY OF ANDHRA PRADESH AND TAMIL NADU
- 11) IGCP-396. "QUATERNARY CONTINENTAL SHELVES"; NATIONAL WORKING GROUP MEMBER, 1997-2000
- 12) DETAIL STUDY OF THE SUB-MARINE CANYONS ON THE EAST COAST OF INDIA, WITH SPECIAL REFERENCE TO THE VALLEYS OFF PONDICHERRY-ITS MORPHOLOGY, TECTONIC BEARING, SEDIMENT MOVEMENT.
- 13) STUDY OF THE CONTINENTAL MARGIN, SOUTH EASTERN PART OF EAST COAST OF INDIA- THE EVOLUTION AND TECTONIC SETTINGS WITH SPECIAL EMPHASIS ON CONTINENTAL SLOPE AND CONTINENTAL RISE AND SEDIMENT MASS MOVEMENT, ECHO-CHARACTERSTIC ETC.
- 14) MEMBER OF THE NATIONAL WORKING GROUP, IGCP-495, QUATERNARY LAND-OCEAN INTERACTION: DRIVING MECHANISM AND COASTAL RESPONSE (AT PRESENT.)
- 15) SUPERVISION OF MARINE OPERATIONS WITHIN TERRITORIAL WATERS AND EXCLUSIVE ECONOMIC ZONE OFF WEST-BENGAL, ORISSA, and ANDAMAN NICOBAR GROUP OF ISLANDS.
- 16) PLANNING FOR THE ACQUISITION OF RESEARCH VESSEL AT GLOBAL LEVEL.
- 17) AS CHAIRMAN OF THE COMMITTEE-VI, Central Geological Programming Board (CGPB) MARINE AND COASTAL SURVEY, CO-ORDINATED ALL THE GEOLOGICAL AND GEOPHYSICAL OPERATIONS BY VARIOUS DEPARTMENTS UNDER GOVT. OF INDIA AND OTHER STATE DEPARTMENTS.

18. Project execution, for M/s Southern LPG, Essar Pellitisation Plant, Black Diamond, Ennore Port as a member of the team of GSI, Marine Wing.

VIII. PUBLICATION OF SCIENTIFIC PAPERS IN NATIONAL & INTERNATIONAL JOURNALS AND OTHERS

- a) NON-SKELETAL CARBONATE SANDS IN PARTS OF WESTERN CONTINENTAL SHELF OF INDIA AND THEIR ENVIRONMENTAL SIGNIFICANCE, 1989, GEOL.SURVEY. SPL.PUB.24, pp59-69.
MOHAPATRA G.P., BISWAS, N.R. and RAO, T.S.
- b) MORPHOLOGY AND SURFACE SEDIMENTS OF THE EASTERN CONTINENTAL SHELF OFF PENINSULAR INDIA,1992,
GEOL.SURVEY.INDIA, SPL.PUB, 29 PP229-243.
MOHAPATRA.GP.,RAO,B.R. AND BISWAS N.R.
- c) MORPHOLOGY AND SURFACE SEDIMENTS OFF SOUTHERN PART OF EASTERN CONTINENTAL MARGIN OF INDIA,2002, PROC.
VOL.NAT.SEM.FOUR DECADES MARINE GEOSCIENC OF INDIA;A RETROSPECT;
MOHAPATRA, G.P., VAZ, G.G AND RAO, R.B.S.
- d) HOLOCENE SEA LEVEL CHANGES IN SOUTHERN PARTS OF EASTERN CONTINENTAL SHELF OF INDIA,1998, IND.JOUR.GEOMORPHOLOGY,V-3,(2)
PP128-145; *MOHAPATRA,G.P.,MURTY,P.S.N.,RAO,B.R. AND NEELAKANTAM,S.*
- e) HISTORICAL SEALEVEL CHANGES IN RELATION TO ARCHAEOLOGICAL STRUCTURES ON THE EAST COAST OF INDIA,2002,
PROC. VOL.NAT.SEM.FOUR DECADES MARINE GEOSCIENC OF INDIA;A RETROSPECT ;GSI; *MOHAPATRA,G.P. AND HARIPRASAD,M.*
- f) RECENT SEA LEVEL CHANGES AND SHORELINE MOVEMENT FROM THE STUDY OF RIVERMOUTH PROCESSES OFF VASISHTA GODAVARI, EAST COAST OF INDIA2002, PROC. VOL.NAT.SEM.FOUR DECADES MARINE GEOSCIENC OF INDIA; A RETROSPECT, GSI; *MOHAPATRA, G.P. HARIPRASAD, M. AND, RAO, P.P.*
- g) SHORELINE CHANGES AND THEIR IMPACT ON THE ARCHAEOLOGICAL STRUCTURES AT MAHABALIPURAM, 1999, GONDWANA GEOLOGY, SPL.VOL4, PP225-233, *MOHAPATRA, G.P. AND HARIPRASAD, M.*
- h.) SEALEVEL CHANGES AND ITS BEARING ON THE MORPHOLOGY ANDSEDIMENTATION ON THE SOUTHERN PART OF EASTERN CONTINENTAL SHELF OF INDIA,2003, PROCD,GEOSAS-IV (INTERNATIONAL) PP134-149, *MOHAPATRA,G.P.,VAZ,G.G AND HARIPRASAD,M.*
- i.) MORPHOLOGY OF CONTINENTAL SHELF OFF NORTH ANDHRA PRADESH COAST AND ITS BEARING ON HOLOCENE TRANSGRESSION,1999,IND.JOUR.GEOMORPHOLOGY,V-4,PP35-44,
MOHAPATRA,G.P. AND MURTY,P.S.N.
- j.) MORPHOLOGY AND SEDIMENTS OF CONTINENTAL SLOPE,RISE AND ABYSSAL PLAIN OF WESTERN PART OF BAY OF BENGAL1989,
GEOL.SURVEY. SPL.PUB.24, pp209-217.
RAO, L.H.J, RAO, T.S., REDDY, DRS, BISWAS, N.R.,MOHAPATRA,G.P. AND MURTY,P.S.N.
- k.) ORIGIN AND DISTRIBUTION OF INNER CONTINENTAL SHELF SAND ALONG PARTS OF NORTH ANDHRA PRADESH BENGAL1989,
GEOL.SURVEY. SPL.PUB.24, pp173-179.
RAO, B.R., MOHAPATRA,G.P.,VAZ,G.G.REDDY,D.R.S., HARIPRASAD,M., MISRA, U.S., RAJU,D.C.L. AND SANKAR,J
- l.) ORIGIN AND PALAEOENVIRONMENTAL ASPECTS OF RED SEDIMENTS FROM BAVANPADU-ICHCHAPURAM,ANDHRA PRADESH,
1998,GEOL.SOC.IND,V-52,PP463-471
VAZ,G.G.,MOHAPATRA,G.P., AND HARIPRASAD,M.

- m.) GEOMORPHOLGY AND EVOLUTION OF BARRIER-LAGOON IN PARTS OF NORTH ANDHRA PRADESH COAST, 2002, MEM.GEOL.SOC.IND,NO-49,PP31-40; VAZ, G.G., MOHAPATRA,G.P., AND HARIPRASAD,M.
- n.) MORPHOLOGY OF THE SEAFLOOR WITHIN EEZ OF VISAKHAPATNAM-KAKINADA COAST, BAY OF BENGAL 1992, JOUR.GEOL.SOC.IND,V-4,PP124 - 130.MURTY, P.S.N., MOHAPATRA,G.P.,REDDY,D.R.S. AND HARIPRASAD,M.
- o.) IMPRINTS OF LATE QUATERNARY SEALEVEL CHANGES IN THE SHELF IN THE CENTRAL PART OF EAST COAST OF INDIA ABSTRACT VOL, AND PRESENTATION,AT THE INHOUSE WORKSHOP ON QUATERNARY GEOLOGY OF COROMONDAL COAST AND DRAINAGE BASIN OF ANDHRA PRADESH, SOUTHERN REGION, GSI,PP-44,MOHAPATRA,G.P.,VAZ,G.G AND HARIPRASAD,M.
- p.) MORPHOLOGY OF CONTINENTAL SHELF OFF NORTH ANDHRA PRADESH COAST AND IT'S BEARING ON HOLOCENE TRANSGRESSION, 1999, IND.JOUR.GEOMORPHOLOGY, V-4, PP35-44, MOHAPATRA, G.P. AND MURTY, P.S.N. PRESENTATION MADE AT INTERNATIONAL SEMINAR ON QUATERNARY SEALEVEL VARIATION, SHORELINE DISPLACEMENT HELD AT TAMIL UNIVERSITY, THANJAVUR IN 1997;ADJUDGED AND AWARDED BEST PAPER OF THE SEMINAR.
- q.) OCCURRENCES OF LIME MUD IN THE SHELF/SLOPE OFF VISAKHAPANAM, CENTRAL EAST COAST OF INDIA
MURTY, P.S.N. RAMMURTY.M AND MOHAPATRA, G.P.
1996, INTERNATIONAL SEMINAR ON GIO-96, HELD AT NIO, GOA.
- r.) MORPHOLOGY AND SURFICIAL SEDIMENT OF THE CONTINENTAL MARGIN OFF CHENNAI-POINT CALIMERE COAST, PRESENTED IN INTERNATIONAL SEMINAR ON IGCP-396, 1998. AT NIO GOA.
MOHAPATRA, G.P.AND VAZ, G.G
- s.) DISTRIBUTION OF HEAVY MINERAL ON THE OUTERSHELF OFF PORTONOVO-NAGAPATTINAM, 1999. ABSTRACT VOLUME, INTERNATIONAL SEMINAR ON OFFSHORE PLACER MINERALS, HELD AT TAMIL UNIVERSITY, THANJAVUR,TAMIL NADU,
MOHAPATRA G.P. AND RAVIKUMAR.V,
- t.) APPLICATIONS OF REMOTE SENSING TO MARINE GEOLOGICAL STUDIES OFF ANDHRA PRADESH AND TAMIL NADU COAST, 1998, PROCD.EIGHTH USERS, INTERACTION WORKSHOP, TO COMMEMORATE ONE DECADES OF IRS OPERATION NRSA DATA CENTRE, HYDERABAD,

MOHAPATRA,G.P.,VAZ.G.G.,HARIPRASAD,M AND RAO,P.P.. PP43-46

IX) OTHER WORKS-

- i) IRS P-4, OCM/SATCORE PROJECT REPORT.V-III,2003, SP[ACE APPLICATION CENTRE, AHMEDABAD.
- ii) REPORT ON THE ENVIRONMENTAL IMPACT STUDIES ON THE DISCHARGE OF SURPLUS WATER BY M/S ESSAR STEEL LIMITED (PELLITISATION PLANT) VISAKHAPATNAM, JULY-2001.
- III) OCCURRENCES OF LIME MUD IN THE SHELF/SLOPE OFF VISAKHAPATNAM, MURTY, P.S.N., RAMMURTY, M, AND MOHAPATRA,G.P.
GEOL.SOC. IND, UNDER PUBLICATION.
- iv) IMPRINTS OF POST LGM SEA-LEVEL RISE ON THE SOUTHERN PART OF THE EASTERN CONTINENTAL SHELF OF INDIA, THE ENTITLED SUBJECT WAS PRESENTED AT THE WORKSHOP ON IGCP-464, ON MAECH, 2005, ABSTRACT PUBLISHED P-15, MOHAPATRA, G.P., HARIPRASAD,M., KUMA,A. AND BRAHMAM,C.V.
- v) SHORELINE RETREAT AT GODAVARI DELTA; A PRECURSOR TO SEA LEVEL RISE, THE ENTITLED SUBJECT WAS PRESENTED AT THE WORKSHOP ON IGCP-464, ON MAECH, 2005, ABSTRACT PUBLISHED P-31

MOHAPATRA.G.P. HARIPRASAD, M., KUMAR, A, KRISHNARAO, J.V. AND RAJAWAT A.S. vi vi) RADIO CARBON (14c) AGES OF MID HOLOCENE LOW STAND POSITIONS IN INNERSHELF, NORTH ANDHRA COAST PRESENTED AT THE WORKSHOP ON IGCP-464, ON MAECH, 2005, ABSTRACT PUBLISHED P- 3 Vaz, G.G
MOHAPATRA.G.P. HARIPRASAD, M.,
vii) REGULAR CONTRIBUTION SCIENTIFIC ARTICLES TO THE NEWS LETTER OF MARINE WING, GSI,

**viii. Regular contributor to Scientific articles to Odisha bignyan academy
‘Science Horizon’**

- X. a. Foreign Deputation for attending training on Operation Hard and Software of Multi-Beam Echo Sounder at, Slangrup, Denmark 7th January 2007 to 25th January 2007.**
b. Foreign Deputation To Houston, USA for Factory acceptance Test of Marine Magnetometer August 2012.
c. Foreign Deputation to South Korea, Ulsan for Keel Laying of reaserch Vessel Samudra Ratnakar, September, 2012.

- ▶ Report On The Environmental Impact Studies On The Discharge Of Surplus Water By M/S Essar Steel Limited (Pellitisation Plant) Visakhapatnam, July-2001.
- ▶ Occurrences Of Lime Mud In The Shelf/Slope Off Visakhapatnam,
- ▶ Imprints Of Post Lgm Dea-Level Rise On The Southern Part Of The Eastern Continental Shelf Of India, The Entitled Subject Was Presented At The Workshop On Igcp-464, On Maeach, 2005, Abstrtact Published P-15. Mohapatra, G.P., Hariprasad,M., Kuma,A. And Brahman,C.V.
Shoreline Retreat At Godavari Delta; A Precursur To Sea Level Rise, The Entitled Subject Was Presented At The Workshop On Igcp-464, On Maeach, 2005, Abstrtact Published P-31 mohapatra.G.P. Hariprasad, M., Kumar, A, Krishnarao, J.V. And Rajawat A.S. Radio Carbon (14c) Ages Of Mid Holocene Low Stand Positions In Innershelf, North Andhra Coast Presented At The Workshop Of Igcp-464, On Maeach, 2005, Abstract Published P- 3 Vaz, G.G Mohapatra.G.P. Hariprasad, M.