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4.1 Publications

Publications in journals during calendar year 2004

1. Babu BV and Kar SK. Coverage, compliance and some operational issues of mass drug administration during the programme to eliminate lymphatic filariasis in Orissa, India. *Tropical Medicine and International Health*, 9 (6): 701-709 (2004).
2. Babu BV and Nath N. The programme to eliminate lymphatic filariasis in Orissa, India: the attitudes of some programme partners. *Annals of Tropical Medicine and Parasitology*, 98 (7): 751-7 (2004).
3. Babu BV and Nayak AN. Recording and reporting process of health information by the health system: a study from Khurda district of Orissa, India. *Journal of Human Ecology*, 15: 295-297 (2004).
4. Babu BV, Hazra RK, Chhotray GP and Satyanarayan K. Knowledge and beliefs about elephantiasis and hydrocele of lymphatic filariasis and some socio-demographic determinants in an endemic community of eastern India. *Public Health*, 118: 121-127 (2004).
5. Balgir RS, Dash BP and Murmu B. Blood groups, hemoglobinopathy and G-6-PD deficiency investigations among fifteen major scheduled tribes of Orissa, India. *The Anthropologist*, 6 (1) : 69-75 (2004).
6. Balgir RS. Health care strategies, genetic load and prevention of hemoglobinopathies in tribal communities of India. *South Asian Anthropologist*, 4 (2): 189-198 (2004).
7. Balgir RS. Hereditary persistence of foetal haemoglobin in a tribal family of Orissa, India. *National Medical Journal of India*, 17 (3): 138-40 (2004).
8. Bulliyya G. Anthro-ecological dimensions of the Eastern ghats section of Orissa: an overview. *South Asian Anthropologist*, 4 (1): 73-88 (2004).
9. Bulliyya G. Micronutrient malnutrition with reference to iron deficiency anaemia status in Orissa. *Man in India*, 84 (1): 33-50 (2004).
10. Chhotray GP, Dash BP and Ranjit MR. Spectrum of haemoglobinopathies in Orissa, India. *Haemoglobin*, 28: 117 – 122 (2004).
11. Mangala A, Khare A, Vineeth V, Pandey NN, Mukhopadhyay A, Ravindran B, Bal V, George A and Rath S. Pleiotropic consequences of Bruton tyrosine kinase deficiency in myeloid lineages lead to poor inflammatory responses. *Blood*, 104 (4): 1191-1197 (2004).
12. Noordin R, Aziz RA and Ravindran B. Homologs of the *Brugia malayi* diagnostic antigen BmR1 are present in other filarial parasites but induce different humoral immune responses. *Filaria Journal*, 31; 3(1): 10 (2004).
13. Panda M and Mohapatra A. Malaria control: An overview in India. *Journal of Human Ecology*, 15 (2): 101-104 (2004).
14. Ranjit MR, Das A, Chhotray GP, Dash BP and Das BN. The Pfcrt (K76T) point mutation favours clone multiplicity in *P.falciparum* infection. *Tropical Medicine and International Health*, 9 (8): 857-861 (2004).
15. Ranjit MR, Das A, Chhotray GP, Roth RN and Kar SK. The pfCRT (K76T) point mutation in *Plasmodium falciparum* and its usefulness for monitoring chloroquine resistance. *Annals of Tropical Medicine and Parasitology*, 98 (8): 879-882 (2004).
16. Vathsala PG, Pramanik A, Dhanasekharan S, Ushadevi C, Pillai CR, Subbarao SK, Ghosh SK, Tiwari SN, Sathyanarayan TS, Deshpande PR, Mishra GC, Ranjit MR, Dash AP, Rangarajan PN and Padmanavan G. Widespread occurrence of the *Plasmodium falciparum* chloroquine resistance transporter (PfCRT) gene haplotype SVMNT in *P.falciparum* malaria in India. *American Journal of Tropical Medicine and Hygiene*, 70 (3): 256 – 259 (2004).

Publications in journals during calendar year 2005 (Upto March 2005)

1. Babu BV, Nayak AN and Dhal K. Epidemiology of episodic adenolymphangitis: a longitudinal prospective surveillance among a rural community endemic for bancroftian filariasis in coastal Orissa, India. *BMC Public Health*, 5: 50 (2005).

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2. Babu BV. A rapid method to assess the coverage of the mass drug administration of diethylcarbamazine in the programme to eliminate lymphatic filariasis. *Southeast Asian Journal of Tropical Medicine and Public Health*, 36: 44-45 (2005).
3. Balgir RS. Detection of rare blood group "Bombay (oh) phenotype" among the Kutia Kandh primitive tribes of Orissa, India. *International Journal of Human Genetics*, 5 (3): 193-198 (2005).
4. Bulliyya G. Growth status of children under-six in a tribal dominated ICDS block of Kalahandi district of western Orissa, India. *South Asian Anthropologist*, 51 (1): 61-76 (2005).
5. Das D, Kumar S, Dash AP and Babu BV. Knowledge of lymphatic filariasis among the population of an endemic area in rural Madhya Pradesh. *Annals of Tropical Medicine and Parasitology*, 99: 101-104 (2005).
6. Kerketta AS, Babu BV, Rath K, Jangid PK, Nayak AN and Kar SK. A Randomised clinical trial to compare the efficacy of three treatment regimens along with foot care in morbidity management of filarial lymphoedema. *Tropical Medicine and International Health*, 10: 698-750 (2005).
7. Rath K, Swain BK, Mishra S, Patasahani T, Kerketta AS and Babu BV. Peripheral health workers' knowledge and practices related to filarial lymphoedema care: a study in an endemic district of Orissa, India. *American Journal of Tropical Medicine and Hygiene*, 72: 430-433 (2005).

Publications in Press:

1. Babu BV, Nayak AN, Rath K and Kerketta AS - Use of Dermatology Life Quality Index in filarial lymphoedema patients. *Transactions of Royal Society of Tropical Medicine and Hygiene* (in press).
2. Babu BV, Rath K, Kerketta AS, Swain BK, Mishra S and Kar SK - Adverse reactions following mass drug administration during the programme to eliminate lymphatic filariasis in Orissa state of India, *Transactions of Royal Society of Tropical Medicine and Hygiene* (in press).
3. Sahoo PK, Satapathy AK, Michael E and Ravindran B. Concomitant parasitism: Bancroftian filariasis and intestinal helminths and response to albendazole. *American Journal of Tropical Medicine & Hygiene* (in Press).
4. Balgir RS. The spectrum of hemoglobin variant in two scheduled tribes of Sundergarh District in North- Western Orissa, India. *Annals of Human Biology*- 2005 (In press).

Publications in edited books/Monograph:

1. Babu BV. Social and behavioural issues of mass drug administration and morbidity management in the programme to eliminate lymphatic filariasis. In: Scientific Working Group Report on *Lymphatic Filariasis*. WHO/TDR, World Health Organisation, Geneva, Switzerland. (in press).
2. Bulliyya G. Micronutrient malnutrition with particular reference to the state of Orissa. In: G.S. Toteja & Padam Singh (eds.), *Proceedings of Workshop on Research Methodologies for Micronutrient Research iron deficiency anaemia status in Orissa*. New Delhi. pp. 37-47.
3. Bulliyya G. Environment and health status of primitive Paudi Bhuiyan tribe in northeastern part of Orissa. In: P. Dash Sharma (Edition), *Anthropology of Primitive Tribes of India*. 2005; (in press).
4. Balgir RS. Prevention of common hereditary disorders in India: Sickle cell diseases, Beta-Thalassemia and G6 PD deficiency. RMRC (ICMR), Bhubaneswar pp. 1-12 (Monograph)

4.2 Human Resource Development

Ph.D. awarded

1. Dr. Abhaya Narayan Nayak was awarded Ph.D. in Anthropology by the Sambalpur University under the guidance of Dr. B.V. Babu. The title of his thesis is "Lymphatic filariasis in rural coastal Orissa: an analysis of bio-cultural dimension of the disease and its treatment".



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Ph.Ds. enrolled

Sl. No.	Name	University	Title of the Ph .D Topic	Guide/Co-guide
1	Mr. Alok Das Mohapatra	Utkal	A study of apoptosis in filariasis	Dr. B.Ravindran
2	Mr. Sudhansu Sekhar Nisank	Utkal	Molecular characterization of thalasemia and its clinical significance in Orissa	Dr.G.P.Chhotray
3	Mr. H.K.Khuntia	Utkal	Molecular epidemiological analysis of <i>Vibrio cholerae</i> associated with epidemic and endemic cholera in coastal and tribal districts of Orissa	Dr. G.P.Chhotray
4	Mr. N.S. Marai	Utkal	Current trends in malaria transmission in Orissa, India	Dr. A.P.Dash
5	Mr. N.N. Mandal	Utkal	Studies on the immuno-protective potential of detergent soluble and lipid antigen of filarial parasite in lymphatic filariasis	Dr. M.K.Das
6	Mr. Aditya K Panda	Utkal	Genetic Polymorphism in Malaria and Filaria.	Dr. B. Ravindran
7	Dr. S. S. Padhi	Utkal	Immuno Epidemiological correlation between Malaria & Filariasis	Dr. B. Ravindran
8	Mr. Santosh K Panda	Utkal	Innate and adoptive immunity in experimental and Human Filariasis	Dr. B. Ravindran
9	Mr. B. R. Sahu	Utkal	Role of antibodies in protective immunity in human and experimental filariasis	Dr. B. Ravindran
10	Mr. Mahendra Panda	Utkal	Problem of Endemic Malaria among tribal and Non- tribal; population in KBK region of Orissa	Dr. A.Mohapatra
11	Ms. Anamika Das	Kalyani	Clinical malaria: association of CD36 gene polymorphism and <i>P.falciparum</i> genotypes	Dr. M.R.Ranjit

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M. Sc. Dissertation Work:

The following students from various universities/institutes have done their M.Sc. dissertation works in RMRC laboratories under the guidance of scientists.

Student	Institution	Dissertation Topic	Guide
Ms. Arpita Ghosh	Utkal University	IgG antibody response to excretory secretory antigens of female adult <i>Setaria digitata</i> in filariae endemic individuals: An immunological marker for exposure to filariasis	Dr. M.K.Das
Mr. Ravi kumar	Utkal University	Characterization of excretory secretory antigens of microfilariae and their use as immunodiagnostic agents in detection of individuals infected with <i>Wuchereria bancrofti</i>	Dr. M.K.Das
Ms. Pujashree Das	Merit Institute of Technology, Ooty	Sight into Bancroftian filariasis	Dr. M.K.Das
Ms. Rasmita Mahapatra	Ravenshaw College, Cuttack	Assessment vectorial capacity of Anopheline vectors using PCR after a control measure	Dr.N.Mahapatra
Ms. Shakti Prava Mishra	Berhampur University	Hemoglobinopathies and G-6-PD deficiency in malaria patients of Southern Orissa	Dr.R.S.Balgir
Mr. Jayant Mahapatra	Berhampur University	Beta-Thalassemia and G-6-PD deficiency in Blood Donors at Blood Bank, M.K.C.G. Medical College & Hospital	Dr.R.S.Balgir
Ms. Amrita Kumari Panda	Utkal University	Hemoglobinopathies in pregnant women in a hospital southern Orissa.	Dr.R.S.Balgir
Ms. Mamata Ray	Utkal University	Sickle cell hemoglobinopathy in pregnant women in an urban hospital	Dr.R.S.Balgir
Rashmita Kumari Padhy	Utkal University	Hemoglobinopathies in children in a hospital of southern Orissa.	Dr.R.S.Balgir
Mr Santosh Kumar Sethi	Utkal University	Sickle cell hemoglobinopathy in a rural PHC of Ganjam district, Orissa.	Dr.R.S.Balgir



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Student	Institution	Dissertation Topic	Guide
Kumari Vishi	North Orissa Univ.	Combined detection of wucheria bancrofti and brugia malayi by singlr PCR	Dr. R.K.Hazra
Ajit Kumar Mohanty	MITS	Prevalence of wolbachia DNA from mosquito (ades) using tetracycline treatment.	Dr. N. Mohapatra
Ranjan Kumar Pati	MITS	Prevalence of wolbachia DNA from mosquito (culex) using tetracycline treatment.	Dr.N. Mohapatra
Pulak Ranjan Nayak	North Orissa Univ.	Isolation , identification and antibiogram of E. Coli from hospitalized diarrhoea patients.	Dr. B. B. Pal
Soumya S. Das	North Orissa Univ.	Prevalence of Vibrio cholerae among hospitalized diarrhoea patients of some selected areas of Orissa	Dr. BB Pal
Sujata Sahoo	North Orissa Univ.	Shigellosis among acute diarrhoea patients: A hospitalized study.	Dr. BB Pal
Ipsita Mishra	Ravensaw College	Detection of ETEC among E. Coli isolates obtained from acute diarrhoeal patients in hospitals patients in hospitals of Bhubaneswar and Puri.	Dr. M.R.Ranjit
Sasmita Sutar	OUAT	The PfCRT gene polymorphisms	Dr.M.R.Ranjit
Nirupama Biswal	Ravensaw College	Detection of EggEC in hospitalized diarrhoeal cases of Bhubaneswar and Puri	Dr. M.R.Ranjit



RMRC Foundation Day Celebration

4.3 Symposia/workshops/training organized by RMRC

- Two Laboratory Technicians from Bharat Vikash Parisad and TASWELS have undergone training on “**Detection of beta-thalassemia and laboratory diagnosis of sickle cell disorders**” in Human Genetics division during April and August 2004.
- Celebrated Observation of **World Health Day** at Jaydev Bhawan, Bhubaneswar, Orissa jointly organized by SIHFW, RMRC, ROHFW during 7th-9th April 2004.
- Workshop cum training on **Verbal Autopsy** was organized by Regional Medical Research Centre, Bhubaneswar for SRS supervisors on verbal autopsy methodology at RMRC, Bhubaneswar during 1st – 3rd June 2004.
- State level symposium on “**Emerging & Re-emerging Infectious Diseases**” was organisedd on 7th June 2004 in RMRC, Bhubaneswar. The symposium was inaugurated by Honorable Minister of Health & Family Welfare, Govt. of Orissa, Sri Bijayshree Routray.
- Training on Verbal Autopsy**: Regional Medical research Centre, Bhubaneswar organized refresher training for SRS supervisors on verbal autopsy methodology at RMRC, Bhubaneswar during 7th – 9th June 2004 and on 15th June 2005.

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6. The Centre organized a training on “**Assignment of cause of death and ICD-10 code**” for the physicians of SPM Dept, SCB Medical college Cuttack during 24th-25th June 2005.
7. “**Symposium on Prevention & Control of Malaria & Challenges for Population Stabilization**”, was jointly organized by Confederation of Indian Industry (CII) & Infomation International (INFOIN), Bhubaneswar in collaboration with RMRC, EMCP, State Institute of Health & Family Welfare at Hotel Meghdoot on 15th July 2004.
8. A workshop-cum-training program (**JCCC@ICMR**) for eastern and southern region ICMR institutions librarian was organized by RMRC Bhubaneswar on 4th August 2004.
9. Regional Medical Research Centre, Bhubaneswar organized an International workshop sponsored by ICMR - Ellison Medical foundation on “**Methodologies in Medical Research**” during 16th -20th August 2004 at Bhubaneswar.
7. Extramural training programmes of mid-level managers under Immunization Strengthening Project (RCH) was organised in collaboration with NICED, Kolkata at Prasar Bharati Bhawan, Bhubaneswar, during 22nd- 27th November 2004.
8. Training for Professional Development Course (PDC) in Public Health Management and Health Sector Reforms for district level medical officers for the state of Orissa, Chhatisgarh and Jharkhand was organized by State Institute of Health & Family Welfare in collaboration with RMRC, and series of lecturers were organized at RMRC on 18th January 2005.
9. Epidemic preparedness Training (Malaria) for ADMO/DMO was organized by EMCP, Orissa in collaboration with RMRC at RMRC, Bhubaneswar during 17th-19th February, 2005
10. Workshop on clinical management of severe and complicated *P. falciparum* malaria was organized at RMRC in collaboration with MRC, Delhi during 21st -23rd March 2005.

4.4 Scientific lectures and events organised

1. Dr. Sabina Mand of Bernhard Nocht Institute of Tropical Medicine, Hamburg, Germany delivered a lecture on “Use of Ultrasound in Filariasis” on 14th June 2004.
2. Dr. Syamal Roy, Indian Institute of Chemical Biology, Kolkata delivered a lecture on “Antigen presentation in Leishmania donovani infection” on 21st June 2004.
3. **National Technology Day**: The National Technology day was observed by the Centre on 13th May 2005. Dr. N. Sarangi, Director, Central Institute of Fresh Water and Aquaculture (ICAR), Bhubaneswar delivered a talk on “Technology on Aquaculture-Present, Past and Future”.
4. **National Science Day**: National Science Day was observed on 28th February 2005 at RMRC Bhubaneswar. Prof. Trilochan Pradhan, eminent physicist and former Director of Institute of Physics and former Vice-chancellor, Utkal University delivered a lecture “Celebration of Physics”.
5. **RMRC Foundation Day** : 24th RMRC Foundation Day was celebrated on 29th March 2005. Dr. Manorama Mohapatra, Editor of Oriya Daily “The samaja” inaugurated the ceremony and Dr. Debakanta Mishra, eminent physicist delivered a speech on Einstein’s Theory of Relativity since the year 2005 is being observed as International year of Physics. The evening session was dedicated for the children of the staff of RMRC. The dance, song and drawing competitions were held among the children and colourful cultural program was organized in the campus.
6. **Vigilance Awareness week** : RMRC, Bhubaneswar observed vigilance awareness week during 1-6 November 2004 in its premises. A seminar participated by all officers and staff was held on 1st November 2004 at 11.00 A.M. and harmful effects of corruption was highlighted in the seminar. All the officials in the seminar also took the pledge as directed by Central Vigilance Commission.

4.5 Foreign visits

1. Dr. S.K.Kar Co-investigator of Indo-German collaboration study entitled “Post DEC reaction in human bancroptian filariasis” visited Bonn, Germany from 14th - 20th Dec 2004.
2. Dr. M.R. Ranjit has undergone an advanced research training on molecular genomics of malaria parasite from 18th October 2004 to 14th January 2005 as short term DBT overseas associate in Drexel University College of Medicine, Philadelphia, USA.



ICMR Foundation Day Celebration
in RMRC, BBSR



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4.6 Awards

1. Dr. G.P. Chhotray, has been awarded "Sir Shriram Memorial Award for 2003-2004" by National Academy of Medical Sciences (India), New Delhi.
2. Dr. B. Ravindran has been awarded "Dr. Pran Nath Chhuttani Oration Award" National Academy of Medical Sciences (India), New Delhi.
3. Mr. R.N. Nayak under WHO In-Country Fellowship Program participated in "Field Epidemiology Training Programme for Paramedicals (FETP)" organized by National Institute of Communicable Diseases, New Delhi.

4.7 Meetings/seminars /symposia/workshops attended by RMRC scientists

1. Dr. B. Ravindran attended the annual RAP-SAC as a member of Research Are Panel (NII, New Delhi; 8-10th April 2004).
2. Dr. S. K. Kar attended one day dissemination workshop on training progress towards sustaining elimination of iodine deficiency disorder in Orissa held at State Institute of Health and Family Welfare, Bhubaneswar on 15th April 2004.
3. Dr. B.V. Babu participated in Workshop on drug delivery strategies for lymphatic filariasis in urban areas in India (NICD, New Delhi; 20-23 April 2004), organised by UNICEF/UNDP/ World Bank/WHO Special Programme for Research and Training in Tropical Disease (WHO/TDR).
4. Dr. S. K. Kar attended Task Force Meeting on Malaria at New Delhi ; 18th May 2004 as a member.
5. Dr. B. Ravindran attended the Fellowship Committee of ECD Division, ICMR as a member (ICMR, New Delhi; 25th May 2004).
6. Dr. S. K. Kar attended Malaria meeting as expert member of the Committee (Regional Directorate of Health and Family Welfare, Bhubaneswar; 11th June 2004).
7. Dr. B. Ravindran attended the Project Advisory Committee of ICMR on Malaria, Filariasis and Leishmaniasis (ICMR headquarters, New Delhi; 25th June 2004).
8. Dr. S.K. Kar and Dr. B.V. Babu attended as resource person in Training to Additional district Medical Officers on Filariasis Control Programme (Bhubaneswar; 25-26th and 28-29th June 2004), organised by Regional Directorate of Health & Family Welfare, Govt. of India.
9. Dr. S. K. Kar attended Workshop on Orissa Health Sector Plan (OHSP) for presentation of the draft action plan for Orissa Health Sector based on "Orissa Vision 2010 – A Health Strategy (Bhubaneswar; 2nd July 2004), organized by Policy & Strategic Planning Unit, Health and Family Welfare, Orissa.
10. Dr. S. K. Kar delivered a keynote address as chief speaker in the state level symposium on "Prevention & Control of Malaria in the Industrial Belt of Orissa – Emerging Needs and Challenges for Population Stabilization" on the eve of World Population Day at Hotel Swasti, Bhubaneswar; 11th July 2004.
11. Dr. S. K. Kar attended the Meeting and delivered a talk on "Emerging diseases and population growth" on the occasion on the occasion of World Population Day (Bhubaneswar; 11th July 2004), organized by Population Research Centre, Bhubaneswar.
12. Dr. N. Mahapatra attended training on use of geographical information system and remote sensing technology on mapping of vector habitats (VCRC, Pondicherry; 14-16th July 2004).
13. Dr. S. K. Kar participated in the meeting on the occasion of "Census Data Dissemination Day" (Jaydev Bhawan, Bhubaneswar; 14th July 2004). His Excellency, S. M.M. Rajendran, Hon'ble Governor of Orissa presided over the meeting.
14. Dr. S. K. Kar attended as chief speaker and delivered a keynote address on "Prevention of malaria - Current Challenges" in the inaugural function in the state level symposium on Prevention & Control of Malaria in industrial belts of Orissa & Challenges for Population Stabilization (Hotel Meghdoot, Bhubaneswar; 15th July 2004).
15. Dr. S. K. Kar attended NNMB Steering Committee Meeting (Hyderabad; 23rd July 2004).
16. Dr. G. Bulliyya attended a meeting on 'Improving Nutritional and Health Status of Children in Umerkote, Orissa' (Hotel Swasti Plaza, Bhubaneswar; 23rd July 2004).
17. Dr. S. K. Kar attended the inaugural function of Regional Museum of National History (Bhubaneswar; 10th August 2004).
18. Dr. S. K. Kar, Dr. A. S. Kerketta, Dr. B. Dwibedi and Dr. A.S. Acharya attended ICMR-Ellison Foundation Workshop on Methodologies in Medical Research & Epidemiology (Hotel Crown, Bhubaneswar; 16-20th August 2004).



Poster presentation by research scholar during SAC meeting

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19. Dr. S. K. Kar attended 2nd Steering Committee Meeting on MDA (Bhubaneswar; 17th August 2004), organized by DHS, Orissa.
20. Dr. S. K. Kar participated in the Brain Storming Session for Development of Biotechnology Sector in Orissa (State Secretariat, Orissa; 19th August 2004).
21. Dr. S. K. Kar attended expert group meeting (ICMR headquarters, New Delhi; 24th August 2004).
22. Dr. S.K. Kar attended immunization programme (RMRC, Bhubaneswar; 30th August – 4th September), organized by NICED, Kolkata.
23. Dr. S. K. Kar delivered a talk on “Application of Physics in Medical Science” at Institute of Physics, as Guest of Honour” on the occasion of Foundation Day of Institute of Physics (Bhubaneswar; 4th September 2004).
24. Dr. S. K. Kar acted as Resource Person and delivered a talk on “Filariasis-Current Perspective” in the Workshop of joint directors & CDMOs on MDA (Hotel Pushpak, Bhubaneswar; 7th September 2004).
25. Dr. S. K. Kar attended a meeting on Board of Studies on Biotechnology (Utkal University, Bhubaneswar; 13th September 2004).
26. Dr. S. K. Kar delivered keynote address on “Thalassemia - Current prospective” on National Thalassaemia Day celebration by Taswels Orissa (OAS officers building, Bhubaneswar; 14th September 2004).
27. Dr. B. Ravindran attended Pre-SAC meeting of Malaria Research Centre, New Delhi as a member (MRC, New Delhi; 9th September 2004).
28. Dr. B. Ravindran attended as member the Project Advisory Committee on Health Sciences of Department of Science and Technology, Govt. of India (RP Centre of Ophthalmic Sciences, New Delhi; 7– 8th October 2004).
29. Dr. S. K. Kar attended International Symposium of Emerging Viral Infection: New Frontiers and Challenges on the occasion of Golden Jubilee Event of National Institute of Virology (NIV, Pune; 11-13 October 2004).
30. Dr. S. K. Kar participated in 24th Annual APICON, Orissa Branch (MKCG Medical College, Berhampur; 13 –14th November 2004).
31. Dr. R.K Hazra participated and presented a scientific paper in Joint Annual conference of Indian Society for Malaria and Other Communicable. Diseases and the Indian Association of Epidemiologist (New Delhi; 19-21st November 2004).
32. Dr. G.P.Chhotray attended the XXVIII National Congress of Indian Association of Medical Microbiologists and presented a paper on “Health status of Primitive tribes of Orissa with special reference to diarrhoeal disorder including cholera” (Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow; 25-28 November 2004).
33. Dr. S. K. Kar delivered a guest lecture on “Future perspective of Physiology” as Chief speaker on 19th Annual Conference of Association of Physiologists of Orissa (Hotel Akbari, Bhubaneswar; 27th November 2004).
34. Dr. G. Bulliyya participated in State level seminar on “GO and NGO Partnership” (Orissa Voluntary Health Association, Bhubaneswar; 6th December 2004).
35. Dr. B. Ravindran attended as member the Project Advisory Committee on Health Sciences of Department of Science and Technology, Govt. of India (Shankara Nethralaya, Chennai; 7-8 the December 2004).
36. Dr. S. K. Kar delivered guest lecture on “Life style disease” at National Seminar on “Contemporary Life Styles and management of Mental Health” (Puri; 10th December 2004), organized by Indian Society of Psychiatrists.
37. Dr. S. K. Kar as Chief speaker delivered a talk on “Health Technology as fulcrum of development for the nation” (RMRC, Bhubaneswar; 11th December 2004), organised by Indian Science Congress Association, Orissa Chapter.
38. Dr. R. S. Balgir participated and presented a paper entitled “Medical Genetics in Orissa: An Urgency in Health and Disease” in the 8th Orissa Bigyan Congress (Bhubaneswar; 11-12th December 2004).
39. Dr. R. S. Balgir was invited to deliver a Lead Lecture entitled “Dimensions of Rural Tribal Health, Nutritional Status of Kondh Tribe and Tribal Welfare in Orissa: A Biotechnological Approach” in UGC Sponsored National Conference on Human Health and Nutrition: A Biotechnological Approach (Thane; 12-13th December 2004).
40. Dr. A.K.Satapathy and Dr. M.K. Beuria attended 31st Annual conference of Indian Immunology Society and presented a paper on “Bancroftian filariasis: soluble



19th SAC meeting in progress



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- circulating factors induce inhibition of T cell proliferation” and “Antigen assay at 10 years after DEC treatment indicates marginal conversion to infection-free state in Wuchereria bancrofti endemic regions of Orissa, India”, respectively (Anna University, Chennai; 15-18th December 2004).
41. Dr. B. Ravindran attended the annual meeting of the Indian Immunology Society as an invited speaker (Anna University, Chennai; 17 –19th December 2004).
 42. Dr. S. K. Kar delivered a talk on “Clinical history of filariasis” (University of Bonn, Germany; 20th December 2004).
 43. Dr. A. S. Kerketta, attended Workshop on web based assignment of cause of death at Delhi from 22nd-24th Dec 2004.
 44. Dr. B. Ravindran attended as a member of the Scientific Advisory Committee of the ‘Centre for Research in Medical Entomology’ (Madurai; 26 –27th December 2004).
 45. Dr. A. S. Acharya participated In “International Conference on Future of Statistical Theory, Practice and Education” and presented paper on “Sequential estimation of genetic parameters for multiple alleles at locus: an empirical application to sickle cell disorder” (Hyderabad; 29th December 2004 - 1st January 2005).
 46. Dr. S. K. Kar participated in a programme “Science Magazine” and discussed in local language on “Problems on filariasis and malaria” (broadcasted on 13th January 2005), organized by Doordarshan, Bhubaneswar.
 47. Dr. G. Bulliyya presented a paper on ‘Nutritional deficiency disorders in the state of Orissa’ in Professional Development Course in Public Health and Health Sector reforms’ for the District level Medical Officers (RMRC seminar-hall, Bhubaneswar; 18th January 2005).
 48. Dr R.K Hazra attended a symposium on molecular medicine and participated in discussion (Cuttack; 23rd January 2005), organized by Department of Biochemistry, S.C.B. Medical College Cuttack.
 49. Dr. B. Ravindran attended the annual meeting of the Molecular Immunology Forum, as a Co-convener (National Institute of Oceanography, Goa; 2-5 February 2005).
 50. Dr. S. K. Kar delivered key note address on “Health Technology & Social development” at Regional Conference on Popularization of Science & Technology for Social Development, (Institute of Physics, Bhubaneswar; 3rd February 2005), organized by Kalinga Foundation Trust.
 51. Dr. B. Ravindran attended as an invited speaker a joint meeting of Indian and German Immunology Societies at New Delhi and presented a paper “Does host immunity function inside filarial worms?” (New Delhi; 6-7th February 2005).
 52. Dr. A. S. Acharya participated in National E- governance meeting (Hotel Swosti Plaza, Bhubaneswar; 6-8th February 2005).
 53. Dr. R. S. Balgir was invited to participate and present a paper entitled “Medical Biotechnology in Human Health and Disease: A Commitment Towards the Service of Society” in the workshop on ‘Biotechnology-Potentials in Orissa’ (Bhubaneswar; 11-13th February 2005).
 54. Dr. S. K. Kar participated in Epidemic Preparedness Training (Malaria) of ADMOs / DMOs and delivered a talk on “Field situation and importance of operational studies” (RMRC, Bhubaneswar; 17-19th February 2005).
 55. Dr. S. K. Kar attended Governing Body meeting of Association of Physicians (Orissa State Branch) (S.C.B. Medical College, Cuttack; 20th February 2005).
 56. Dr. R. S. Balgir participated as Treasurer in the Governing Council Meeting and the General Body Meeting of the Indian Society of Human Genetics (Hyderabad; 20-21st February 2005).
 57. Dr. R. S. Balgir participated and presented a paper entitled “Molecular spectrum of hemoglobinopathies in Orissa: A Major Thrust Area of Research” in 9th ADNAT and 30th Annual conference of the Indian Society of Human Genetics (Hyderabad; 20-23rd February 2005).
 58. Dr. S. K. Kar attended National Seminar on Homeopathy and delivered a talk as Guest Speaker on “Impact of Environmental Pollution and industrial hazards on ARI” (Rabindra Mandap, Bhubaneswar; 23rd February 2005).
 59. Dr. S. K. Kar attended Sixth Sir Dorabji Tata Symposium on Viral Hepatitis (J.N.Tata Auditorium, Indian Institute of Science Campus, Bangalore; 10-11th March 2005).

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60. Dr. B. V. Babu attended a meeting on development of drug delivery strategies for lymphatic filariasis elimination in urban areas in India (Tuberculosis Research Centre, Chennai; 18th March 2005).
61. Dr. M.R Ranjit attended the symposium as a resource person for the workshop on "Clinical management of severe and complicated P. falciparum malaria" and delivered lecture on "Diagnosis of Malaria" (RMRC, Bhubaneswar; 21-23rd March 2005).
62. Dr. R.K. Hazra attended as a resource person in the workshop on clinical management of severe and complicated P. falciparum on malaria (RMRC, Bhubaneswar; 21-23rd March 2005), organised by MRC, New Delhi.
63. Dr. B.V. Babu attended National Seminar on Emerging issues in Gender Studies and presented a paper entitled, "Women's health in India: an emphasis on health consequences of domestic violence". (Sambalpur University, Sambalpur; 30-31st March 2005).

4.8 Facility

Library & Information:

Library & Information Centre of Regional Medical Research Centre, Bhubaneswar houses an exclusive collection of books, foreign and Indian journals, databases, reprints, etc. on various subjects of biomedical sciences. For the calendar year 2005, the library subscribed 25 foreign journals and 38 Indian journals and procured 125 books. The library provides services like reference, inter-library loan, on-line literature/database search through Internet and off-line MEDLINE services. The reprint request is also provided to the scientists through ICMR Librarians Group Mail services (icmr-librarians@yahoo.com) and through JCCC@ICMR. The Local Area Networking (LAN) has installed and 48 nodes have been allocated for Internet connection through ISDN connection.

The library & Information division is doing publication activities of the center. RMRC News Bulletin entered 5th year of its publication and carries research articles contributed by its own scientists and researchers on various field of their working areas. In addition, the library is publishing a biannual library News Letter. IEC materials are also made on various diseases on local languages for distribution to the public. Besides, the division looks after the publication of Centre's Annual Report.

Activities of NNMB Unit, Orissa, Bhubaneswar

The NNMB Unit, Orissa under NIN, Hyderabad functioning at RMRC, Bhubaneswar has completed the survey for assessment of Diet and Nutritional status of community and prevalence of Hypertension and Anaemia in rural adult males and NPFL women in eighty (80) villages of sixteen (16) districts of Orissa by May 2005. The data was regularly sent to NIN, Hyderabad for analysis.

The survey included assessment of demography and socio-economic status of families, Nutritional status (clinical, anthropometry and morbidity assessment), Diet & Nutrient intake using individual dietary food intake method, Haemoglobin estimation in adult males and NPFL females i.e. e[>]20 years of age by cyanomethaemoglobin method, estimation of blood pressure among adult males and NPFL females, measurement of waist circumference and Hip circumference of adult males & NPFL females and administration of KAP schedules of Hypertension and Diabetes mellitus among adult males and NPFL females.

The general objective of this survey is to assess the diet and nutritional status of the rural community and prevalence of obesity and hypertension among adults (e[>]20 years). The specific objectives are as follows:-

1. To assess the food and nutrient intakes among different age/sex/physiological groups in the rural areas.
2. To assess the nutritional status of individuals in terms of anthropometry and clinical examination.
3. To assess the prevalence of obesity among the adults excluding pregnant women (e[>]20 years) in terms of BMI, waist circumference and waist-hip ratio.
4. To assess the haemoglobin levels among adult males and non-pregnant and non-lactating (NPFL) women.
5. To assess the prevalence of hypertension among adult men and women of e[>]20 years of age.
6. To assess the knowledge of adult men and women about hypertension and diabetes mellitus.



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The coverage particulars during this survey is as follow:-

No. of Households enumerated:- 28519, Anthroponetry & clinical examination was done in 5744 individuals i.e. 68% of the target, Haemoglobin estimation coverage among adult males – 393 i.e. 98% of the target and among adult females (NPNL) – 399 i.e. 100% of the target. KAP schedules were administered among 2332 individuals i.e. 97% of the target.

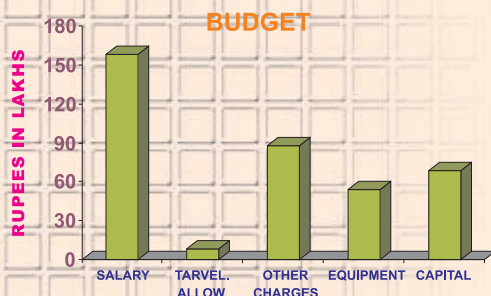
Insectarium

The insectorium facility is maintained at the Centre by Entomology Division by rearing of various stages of vectors used for laboratory studies. Cyclic colonies of three mosquito species i.e. *Aedes aegypti* (black eyed Liverpool strain), *Anopheles stephensi* and *Culex quinquefasciatus* are being maintained.

Cyclic colonies are maintained for conducting different experiments, such as development of different strains and species of filarial worms which will help in the selection of proper animal model and conducting bio-assays of different plant products for observation of its insecticidal properties.

Animal house

Animal facility in the Centre continues to be used under Immunology Division catering to all research projects requiring animal experimentation. Currently Rabbit, *M. couch*, jirds, CBA/N mice, Guinea pigs are available for experimentation. This animal facility has been registered with CPCEA. All the projects concerning animal use experimentation are discussed in duly constituted Animal Ethical Committee of the Centre and work progress review periodically by committee. The facility is well maintained with animal house attendant and other trained researchers. Animal house is maintained regularly with periodic inspection and health monitoring by veterinarian. The newly constructed Animal House facility is likely to be functional very soon.



4.9 Budget and Extramural Grants:

The total sanctioned Budget in respect of the Centre (Non-Plan & Plan) for the year 2004-05 is Rs.399.92 lakhs. The total expenditure made by the Centre for the year 2004-05 is Rs.376.48 lakhs. The head-wise expenditure of budget is shown below graph. During this year, 25 extramural projects were under taken at RMRC, Bhubaneswar. The budget for these projects is 88.15 lakhs and it has been generated from both Indian and international funding agencies.

4.10 19th Scientific Advisory Committee

Dr. Sandeep Basu Director, National Institute of Immunology Aruna Asaf Ali Marg, New Delhi 110 067	Chairman
Dr. S. Pattnayak B-91, Swasthya Vihar, Delhi 110 092	Member
Lt. Gen. D. Raghunath Principal Executive, Sir Dorabji Tata Centre for Research in Tropical Diseases, Innovation Centre, IISc Campus, Bangalore 560 012	Member
Dr. Sarita Agarwal Addl. Professor, Deptt. of Genetics, SGPGIMS, Raebareli Road. Lucknow 226 014	Member
Dr. K. Ramachandran Consultant, National Institute of Epidemiology, Chennai	Member
Dr. Ashish Datta Director, National Centre for Plant Genome Research J.N.U. Campus, PO BoX:10531, New Delhi 110 067	Member
Dr. R. Reuben No.52, Rashmi Apartments, 5 th Floor, D Monte Part Road, Bandras, Mumbai 400 050	Member

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Dr. Indira Chakravarty 110, Chittaranjan Avenue, Kolkata 700 073	Member
Dr. Era Ray B 265 GKI, New Delhi-110 048	Member
Dr. D.S. Agarwal B-24, Swasthya Vihar, Delhi 110 092	Member
Dr. Neelima Kshirsagar Professor & Head, K.E.M. Hospital Parel, Mumbai 400 012	Invited Member
Director of Health Services, Govt. of Orissa, Heads of the Dept. Building, Bhubaneswar	Member
Dr. Satish Gupta National Institute of Immunology Aruna Asaf Ali Marg, New Delhi-110 067	DG's Nominee
Dr. Sarala K. Subbarao Ex-Director, MRC Consultant, ECD, ICMR, N.Delhi-29	Invited Member
Dr. A.P. Dash Director, Malaria Research Centre 20, Madhuban, Vikas Marg, Delhi 110 092	Invited Member
Dr. S.K. Acharya All India Institute of Medical Sciences, New Delhi	Invited Member
Dr. Lalit Kant Sr. DDG, Indian Council of Medical Research Ansari Nagar, New Delhi 110 029	ICMR Representative
Dr. Dipali Mukherjee DDG (SG) & Chief, ECD Indian Council of Medical Research Ansari Nagar, New Delhi 110 029	ICMR Representative
Dr. Rashmi Arora DDG (SG), ECD-II Indian Council of Medical Research Ansari Nagar, New Delhi 110 029	ICMR Representative
Dr. S.K. Kar Director, Regional Medical Research Centre (ICMR) Bhubaneswar	Member Secretary

4.11 Human Ethical Committee:

1. Justice (Mrs.) A.K. Padhi Former Judge, Orissa High Court 10, Bhasakosh Lane, Nimchouri, Cuttack-753 002	Chairman
2. Dr. B B. Tripathy Retd. Prof. of Medicine Saradiya Mission Road, Cuttack-753 001	Member
3. Dr. (Mrs.) P. Mohanty Hejmadi Former V.C., Sambalpur University GM-8, VSS Nagar, Bhubaneswar-751 004	Member
4. Mrs. Kasturika Pattanayak Ex-Chair Person, Social Welfare Board Govt. of Orissa, 1, Lewis Road, Bhubaneswar	Member
5. Dr. (Mrs.) Manorama Das C/o. Prof. G.C.Das, Santiniketana, Mathasahi, Cuttack	Member
6. Dr. S.K. Kar Director, Regional Medical Research Centre, Bhubaneswar	Member-Secretary



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4.12 Animal Ethical Committee:

1. Dr. S.K. Ray Chairman
Professor & Head, Dept. of Veterinary Medicine
Orissa College of Animal Husbandry &
Veterinary Sciences, O.U.A.T., Bhubaneswar – 751 001
2. Dr. G.B.N. Chainy Member
Professor & Head, Dept. of Zoology
Utkal University, Bhubaneswar – 751 004
3. Prof. P.C. Supkar Member
Institute of Life Sciences, Bhubaneswar-751 023
4. Fr. S.J. Abrham Member
Director, Xavier Institute of Management
Bhubaneswar-751 023
5. Mr. N.R. Mansingh Nominee of the CPCSEA
Inspector, SPCA, C/o. CDVO office, Puri – 752 002
6. Dr. M.K. Das Biological Scientist
Deputy Director (Sr. Gr.), RMRC, Bhubaneswar
7. Dr. B. Ravindran I/C Animal facility
Deputy Director (Sr. Gr.)
RMRC, Bhubaneswar
8. Dr. (Mrs.) N. Mohapatra Biological Scientist
Assistant Director, RMRC, Bhubaneswar
9. Dr. S.K. Kar Convener
Director, RMRC, Bhubaneswar

4.13 Technical Equipment Purchase Committee:

1. Dr. A.K. Sahoo Chairman
Principal Scientist
CIFA, Kausalya gang, Bhubaneswar- 751 002
2. Prof. P.C. Supakar External Member
Director-in- Charge
Institute of Life Sciences, Bhubaneswar-751 023
3. Dr. A. Padhi, MD External Member
Pathologist, Kalinga Hospital, Bhubaneswar
4. Dr. Pankaj Agarwal External Member
Lecturer, Institute of Physics, Bhubaneswar
5. Mr. A.K. Mohapatra Member
AO, RMRC, Bhubaneswar
6. Mr. R.V.Rao, Member
ACO, RMRC, Bhubaneswar
7. Dr. B. Ravindran, DD (SG) Member (Subject Specialist)
RMRC, Bhubaneswar
8. Dr. M.K. Das, DD (SG) Member- Secretary
RMRC, Bhubaneswar

4.14 Technical Building Maintenance Committee:

1. Mr. D.N. Tripathy Chairman
Retd. Chief Engineer, CPWD
2. Mr. P.K. Pattanik Member
Retd. Sup. Eng. (Elect.), CPWD
3. Mr. P. Kapoor Member
Retd. Jt. Director (Agriculture)
4. Dr. B.V. Babu Member
Assistant Director, RMRC
5. Dr. A.K. Satapathy Member
Senior Research Officer, RMRC
6. Mr. R.V. Rao Member
Accounts Officer, RMRC
7. Mr. G. Behera Member
Section Officer, RMRC

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4.15 Staff position

DIRECTOR

DR. S.K. Kar, MD

IMMUNOLOGY DIVISION

Dr. M.K. Das, M.Sc., Ph.D.
Dr. B. Ravindran, M.Sc., Ph.D.
Dr. M.K. Beuria, M.Sc., Ph.D.
Dr. A.K. Satapathy, M.Sc., Ph.D.
Mr. N. Mandal, M.Sc., M.Phil., B.Ed.
Dr. P. K. Sahoo, M.Sc., Ph.D.
Dr. (Mrs.) M.S. Bal, M.Sc., M.Phil., Ph.D.
Mr. H.S. Naik, Dip. MLT
Mr. K.C. Parichha
Mr. S.C. Das

Deputy Director (Sr. Gr.)
Deputy Director (Sr. Gr.)
Senior Research Officer
Senior Research Officer
Research Assistant
Research Assistant
Research Assistant
Lab. Technician
Insect Collector
Lab. Attendant

Students:

Mr. B.R. Sahu, M. Sc. M. Phil
Mr. Alok Das Mohapatra, M. Sc.
Mr. Santosh Kumar Panda, M. Sc.
Mr. Aditya Kumar Panda, M. Sc.

SRF
SRF
JRF
JRF

PATHOLOGY AND MICROBIOLOGY DIVISION

Dr. G.P. Chhotray, M.D.
Dr. M.R. Ranjit, M.Sc., Ph.D.
Dr. B.B. Pal, M.Sc., Ph.D.
Mr. H.K. Khuntia, M.Sc.
Mr. R.K. Das, M.Sc.
Mr. B.N. Sethi, Dip. MLT
Mr. K.C. Dalai, B.A., ITI
Mr. B.K. Kanhar
Mr. C.R. Samantray
Mr. K.C. Jena
Mr. S. K. Mallick

Deputy Director (Sr.Gr.)
Senior Research Officer
Senior Research Officer
Research Assistant
Research Assistant
Lab. Technician
Lab. Assistant
Lab. Assistant
Lab. Assistant
Laboratory Attendant
Lab. Attendant

Students

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JRF

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Dr. A. Mohapatra, M.Sc., M.Phil., Ph.D.
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Dr. Bhagirathi Dwibedi, M.B.B.S, M.D
Mr. P.K. Jangid, M.Sc.
Dr. A.S. Acharya, M.Sc., M.Phil, LL.B., Ph.D
Mr. D.P. Hansdah, M.Sc.
Mr. R.C. Parida, M.Sc.
Mr. S.C. Rout
Mr. T. Moharana
Mr. R.N. Nayak, B.A.
Mr. K. Dhal, B.A.
Mr. N.N. Pattnaik
Mr. H.K.Jena
Mr. K.C. Nayak

Deputy Director
Assistant Director
Senior Research Officer
Senior Research Officer
Research Officer
Statistical Assistant
Research Assistant
Research Assistant
Research Assistant
Lab. Technician
Lab. Assistant
Census Taker
Census Taker
Laboratory Attendant
Field Attendant
Sweeper

MEDICAL ENTOMOLOGY DIVISION

Dr. (Mrs.) N. Mohapatra, M.Sc., Ph.D.
Dr. R.K. Hazra, M.Sc., Ph.D.
Dr. S.K. Parida, M.Sc., Ph.D.
Mr. N.S. Marai, M.Sc., LL.B.
Mr. H.K. Tripathy, B.Sc, PGDME
Mr. G.D. Mansingh
Mr. B. Pradhan
Mr. C.S. Tripathy, B.Com. LL. B.
Mr. S.S. Beuria
Mr. G. Simhachalam
Mr. Banamali Nayak

Assistant Director
Senior Research Officer
Technical Officer
Research Assistant
Technical Assistant
Insect Collector
Insect Collector
Insect Collector
Insect Collector
Insect Collector
Field Attendant



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HUMAN GENETICS DIVISION

Dr. R.S. Balgir, M.Sc. (Hons.), Ph.D.
Dr. G. Bulliyya, M.Sc., Ph.D.
Dr. B.P. Dash, M.Sc., Ph.D.
Mr. B. Murmu, M.Sc., M.Phil.
Mrs. G. Mallick, M.Sc.

Deputy Director (Sr. Grade)
Senior Research Officer
RA (on deputation w.e.f. 23.02.2005)
Research Assistant
Research Assistant

LIBRARY & INFORMATION

Dr. B. Sahoo, M.L.I.Sc., Ph.D.
Mr. Chakradhar Naik
Mr. R.S. Bahadur

Asst. Lib. & Inf. Officer
Sweeper-c-Attendant
Watchman

ADMINISTRATION

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Mr. R.C. Muduli, B.A.
Mr. P.C. Nayak, B.A.
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Mr. A.P. Parida, B.A.
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Mr. S. Nayak
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Mr. R.C. Dash
Mr. Sankar Prasad Sharma
Mr. M.B. Thappa
Mr. R.S. Rai
Mr. Som P. Sharma
Mr. T. Bahadur

Administrative Officer
Section Officer
Assistant
Personal Assistant
Personal Assistant
U.D.C.
U.D.C.
L.D.C.
L.D.C.
L.D.C.
L.D.C.
L.D.C.
Office Attendant
Watchman
Watchman
Watchman
Watchman
Watchman

Directors' Office

Mr. L.S. Rao, B.A.
Mrs. R. Varghese
Mr. K.G. Samal
Mr. R.K. Hembram

Private Secretary
Steno
Attender
Field Attendant

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Mr. B. Sutar, M.Com.
Mr. S.K. Satapathy
Mr. D. Chinna Rao

Accounts Officer
Assistant
U.D.C.
Sweeper

WORKSHOP, INSTRUMENT & BUILDING MAINTENANCE

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Mr. S. Sutar
Mr. J. Behera
Mr. B.K. Moharana
Mr. Banamali Sahoo
Mr. Sankar Bisoi

Electrician
Generator Operator
Pump House Operator-cum-Wireman
Plumber-c-Carpenter
Gardener
Cook-cum-Guest House Attd.

ANIMAL FACILITY

Mr. A. Senapati
Mr. S.K. Das
Mr. Jaladhar Naik
Mr. Pandav Sahoo

Animal House Attendant
Animal House Attendant
Animal House Attendant
Animal House Attendant

TRANSPORT

Mr. Md. Daulat Khan
Mr. Sibaram Patra
Mr. R. Pradhan
Mr. Anakar Nayak
Mr. A.R. Khan
Mr. P.K. Behera

Driver (Special Grade)
Driver (Grade-I)
Driver (Grade-I)
Driver (Grade-II)
Driver (Grade-II)
Driver

NATIONAL NUTRITION MONITORING BUREAU (NNMB) STAFF

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Mrs. S. Paikray
Mrs. Haraprava Sahu
Mr. D.K. Mohanty
Mr. R.K. Sahoo
Mr. J.K. Mohanty

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Asst. Research Officer
Social Worker
Steno-C-Office Asst.
Driver
Field Attendant