

CENTRAL GROUND WATER BOARD DEPARTMENT OF WATER RESOURCES, RIVER DEVELOPMENT AND GANGA REJUVENATION, MINISTRY OF JAL SHAKTI GOVERNMENT OF INDIA

INCEPTION REPORT ON NAQUIM-2.0 OF RAIPUR URBAN, DHARSIWA BLOCK, RAIPUR DISTRICT, CHHATTISGARH STATE AAP: 2023-24

Team Lead – Priyanka B. Sonbarse Scientist-C (Hydrogeologist)

NORTH CENTRAL CHHATTISGARH REGION, RAIPUR APRIL - 2023

CONTENTS

| 1.STUDY AREA |
|---|
| 2.PRIORITY TYPE |
| 3. PREVIOUS STUDIES |
| 4. OBJECTIVES OF THE PRESENT STUDY |
| 5. EXISTING DATA |
| 6. AQUIFER WISE DATA GAP ANALYSIS5 |
| 7. NEW DATA GENERATION |
| 8. MONTH-WISE ACTIVITY PLAN |
| 9. COMPOSITION OF TEAM |
| 10. TEAM-MEMBER-WISE RESPONSIBILITIES AND MONTHLY TARGETS FOR |
| ENTERING IN THE MIS7 |

INCEPTION REPORT ON NAQUIM-2.0 OF RAIPUR URBAN, DHARSIWA DISTRICT, CHHATTISGARH

| 1 STUDY AREA Raipur district 1.1 Area 503 km ² 1.2 Latitude 21.2514 N 1.3 Longitude 81.535833 and 81.829444 E longitude 1.4 Villages 83 1.5 Total population 211052 | |
|--|-----------|
| 1.1 Area 503 km ² 1.2 Latitude 21.2514 N 1.3 Longitude 81.535833 and 81.829444 E longitude 1.4 Villages 83 1.5 Total population 211052 | |
| 1.2 Latitude 21.2514 N 1.3 Longitude 81.535833 and 81.829444 E longitude 1.4 Villages 83 1.5 Total population 211052 | |
| 1.3 Longitude 81.535833 and 81.829444 E longitude 1.4 Villages 83 1.5 Total population 211052 | |
| 1.4Villages831.5Total population211052 | |
| 1.5 Total population 211052 | |
| | |
| 1.6 Male 106972 | |
| 1.7 Female 104080 | |
| 1.8 Rural Population 211052 | |
| 1.9 Urban Population 1155089 | |
| 1.10 Growth Rate (10 -18.85 | |
| Years) | |
| 1.11ClimateSub-Tropical | |
| 1.12Average Rainfall1489 mm | |
| 1.13GeomorphologyChhattisgarh Plain | |
| 1.14DrainageKharun River | |
| Chhokra River | |
| 1.15Soil typeSandy soil, Lateritic and Regolith soil | |
| 1.16Geology Chandi Limestone, Chandi Sandstone | |
| Gunderdehi Shale | |
| The proposed urban Raipur Urban Agglomerate und | der |
| 2 PRIORITY TYPE naquim 2.0 to be mapped in 1: 10000 considering the consta | ant |
| growth of population, industrallisation and urbanization | |
| | |
| 3 PREVIOUS STUDIES | |
| Systematic Survey | |
| 3.1 Reappraisal Survey Reappraisal survey carried before 2020. | |
| NAQUIM studies carried out in Dharsiwa block in 2020-21 | by |
| CGWB stressed on reducing the ground water draft in t | the |
| command area and encourage farmers to take less was | ter |
| consuming crops such as Maize/Finger Millet (Ragi) instead | of |
| cultivating summer rice, which requires up to 1500 mm | 10 |
| irrigation water. This will reduce the groundwater developme | ent |
| 3.2 NAQUINI report of by up to 70%. The reasons benind the high development | 01 |
| Dharsiwa block groundwater include excessive withdrawal of groundwater, in 2020 21 viold and transmissivity of the equifer and leadised fracture | 0W |
| 2020-21 yield and transmissivity of the aquifet, and localised fracture Field irrigation should be replaced with channel irrigation | es. |
| command and non command areas and micro irrigation | ion |
| methods should be used in command and non command area | |
| Mass awareness incentives assured prices better marketir | as. na |
| technology development model crop specific to the are | ng, ea |

| | | animal grazing, group or community fencing, training | | | | | | |
|-----|---------------------|---|--|--|--|--|--|--|
| | | programmes, and other media should be used to discourage | | | | | | |
| | | farmers from taking summer rice | | | | | | |
| 2.2 | Deserves Assessment | As non-CEC 2022 the store of source for the local source is | | | | | | |
| 3.3 | Resource Assessment | As per GEC-2022 the stage of groundwater development is | | | | | | |
| | | 96.21% and is categorized as Critical. The annual extractable | | | | | | |
| | | groundwater resource is 84.50 MCM, whereas the total draft is | | | | | | |
| | | 81.30 MCM. The irrigation water draft accounts for 38.96% of | | | | | | |
| | | the total water used. | | | | | | |
| 3.4 | Published Paper | • Sridhar (1995). Chemical Characteristics of the | | | | | | |
| | _ | Groundwater in parts of Dharsiwa Block, Raipur District, | | | | | | |
| | | Madhya Pradesh Journal of Ravishankar University (Part- | | | | | | |
| | | R: Science) 8(1) pp 51 60 | | | | | | |
| | | D. Second (1) , (1) , (1) , (1) , (2) | | | | | | |
| | | • Aman Kumar Bohidar & Ishtiyaq Ahmad (2021). | | | | | | |
| | | Development of Conceptual Model and Groundwater Flow | | | | | | |
| | | Modeling Using GMS Software: A Case Study for Dharsiwa | | | | | | |
| | | Block, Chhattisgarh, India | | | | | | |
| | | • Pritee Pandev et.al.(2022) Valuation of uranium | | | | | | |
| | | contamination of Rainur district of Chhattisgarh. GIS | | | | | | |
| | | assisted hydrogeochemical study of underground water | | | | | | |
| | | assisted flyerogeochemical study of underground water. | | | | | | |
| | | • Singh and Diwan (1988). Quantitative analysis of watershed | | | | | | |
| | | geomorphology in Chokra Nala basin, district Raipur, M.P. | | | | | | |
| | | Journal of Ravishankar University (Part-B: Science), 1(1), | | | | | | |
| | | pp. 63-70. | | | | | | |

| | | Groundwater has been used everywhere for a long time because | | | | | | | |
|-----|----------------------|---|--|--|--|--|--|--|--|
| 4 | OBJECTIVES OF | of its easy accessibility and good quality. In urban areas, | | | | | | | |
| | THE PRESENT | groundwater as a source of domestic, commercial and industrial | | | | | | | |
| | STUDY | water has greatly contributed to the development of cities. The | | | | | | | |
| | | ground water is vulnerable to contaminate both natural and | | | | | | | |
| | | anthropogenic. | | | | | | | |
| | | Hence, the objectives of the present study is to delineate: | | | | | | | |
| | | 1. Aquifer mapping watershed wise (as AMU) | | | | | | | |
| | | 2. Demand and supply. | | | | | | | |
| | | 3. Detailed Aquifer Dispositions. | | | | | | | |
| | | 4. Aquifer-wise ground water Water Levels. | | | | | | | |
| | | 5. Delineation of Recharge Areas. | | | | | | | |
| | | 6. Estimation/Refinement of parameters used for resource | | | | | | | |
| | | assessment. | | | | | | | |
| | | 7. Assessment of ground water resources. | | | | | | | |
| | | 8. Ground Water Quality. | | | | | | | |
| | | 9. Areas showing signs of subsidence. | | | | | | | |
| | | 10. Ground Water Quality Management Interventions, | | | | | | | |
| | | including demarcation of safer aquifers. | | | | | | | |
| | | 11. Artificial Recharge Plan. | | | | | | | |
| | | 12. Other measures. | | | | | | | |
| | | 13. Identification of potential aquifers for drinking water | | | | | | | |
| | | supply | | | | | | | |
| | | 14. A plan for drinking water source sustainability. | | | | | | | |
| | | 15. Finally, to evolve a block-level management plan which | | | | | | | |
| | | is implementable. | | | | | | | |
| | | | | | | | | | |
| 5 | EXISTING DATA | | | | | | | | |
| | | Number | | | | | | | |
| 5.1 | Exploratory Well | 13 | | | | | | | |
| 5.2 | Observation Well/ | 6 | | | | | | | |
| | Peizometer | 0 | | | | | | | |
| 5.3 | VES/TEM | 8 | | | | | | | |
| 5.4 | NHS | 4 | | | | | | | |
| 5.5 | Water Quality | 9 | | | | | | | |
| 5.6 | Infiltration Test | Nıl | | | | | | | |
| 5.7 | Pumping Tests | | | | | | | | |
| 6 | AOUIFED WISE DATA | CADANALVSIS | | | | | | | |
| U | AQUITER WISE DATA | Va of Additional Structures Dequired | | | | | | | |
| 61 | Chandi Limastana | FW/OW/D7 5 | | | | | | | |
| 0.1 | | $\frac{1}{12} \frac{1}{12} = 3$ $\frac{1}{12} \frac{1}{12} = 3$ $\frac{1}{12} \frac{1}{12} \frac{1}{12} = 3$ | | | | | | | |
| | | $\frac{1}{2} = 0 \text{ up to 200 III}$ Water Level = $\frac{1}{2} = \frac{1}{2} (\text{Monitoring Walls DW/DW})$ | | | | | | | |
| | | Water Sample 60 | | | | | | | |
| | | Infiltration Test _ 6 | | | | | | | |
| | | Dumping Tosts/Slug Tost | | | | | | | |
| | | rumping resis/sing resi - 4 | | | | | | | |

| 6.2 | Chandi Sandstone | EW/OW/PZ - 2 |
|-----|------------------|--|
| | | VES/TEM - 6 upto 200 m |
| | | Water Level - 30(Monitoring Wells DW/BW) |
| | | Water Samples - 40 |
| | | Infiltration Test - 4 |
| | | Pumping Tests/Slug Test - 4 |

7. NEW DATA GENERATION

7.1 Activity wise monthly targets for new data generation

| S. | Deliverables | Μ | J | J | A | S | 0 | Ν | D | J | |
|----|---|---|---|----|---|---|----|---|----|---|--|
| Ν | | a | u | ul | u | e | ct | 0 | ec | a | |
| 0 | | У | n | | g | р | | V | | n | |
| 1 | Establishment of new wells and aquifer property | | | | | | | | | | |
| 2 | 2 Sample Collection | | | | | | | | | | |
| 3 | Analysis of the Water Quality Data | | | | | | | | | | |
| 4 | 4 VES/TEM | | | | | | | | | | |
| 5 | Demand Assessment | | | | | | | | | | |
| 6 | Rainfall Infiltration Test | | | | | | | | | | |
| 7 | Pumping test/Slug test | | | | | | | | | | |
| 8 | Farmer Feedback | | | | | | | | | | |

7.2 Plan for integration with other ongoing activities

- > Addition of refined parameters in the calculation of GWRA-2023
- Preparation of recharge plan according to abstraction structures proposed in Jal Jeevan Mission and Nal Jal Yajna.

8. MONTH-WISE ACTIVITY PLAN

| S. | Deliverables | | J | J | A | S | 0 | Ν | D | J | F | Μ |
|----|---|---|---|----|---|---|---|---|---|---|---|---|
| No | | a | u | ul | u | e | c | 0 | e | a | e | a |
| | | у | n | | g | р | t | V | c | n | b | r |
| 1 | Aquifer Dispositions | | | | | | | | | | 1 | |
| 2 | Aquifer-wise ground water Water Levels | | | | | | | | | | 1 | |
| 3 | Delineation of Recharge Areas | | | | | | | | | | 1 | |
| 4 | Estimation/Refinement of parameters used for | | | | | | | | | | | |
| | resource assessment | | | | | | | | | | | |
| 5 | Assessment of ground water resources | | | | | | | | | | 1 | |
| 6 | Ground Water Quality | | | | | | | | | | | 1 |
| 7 | Areas showing signs of subsidence | | | | | | | | | | | |
| 8 | Ground Water Quality Management Interventions | | | | | | | | | | | |
| | including demarcation of safer aquifers | | | | | | | | | | 1 | |
| 9 | Artificial Recharge Plan | | | | | | | | | | | 1 |
| 10 | Other measures including meeting with state officials | | | | | | | | | | | |
| | for additional data generation and presentation to the | | | | | | | | | | | |
| | DM/DCs | | | | | | | | | | | |
| 11 | Identification of potential aquifers for drinking water | | | | | | | | | | | |
| | supply | | | | | | | | | | 1 | 1 |
| 12 | A plan for drinking water source sustainability | | | | | | | | | | | |

9. COMPOSITION OF TEAM

| Team Lead | - Priyanka B. Sonbarse | Hydrogeologist (Sc-C) |
|-----------------------------|------------------------|-----------------------|
| Expert (Hydrogeology)-1 | - Sarboday Barik | Hydrogeologist (AHg) |
| Expert (Geophysics) | - Dr. Ajaya Ku. Sinha | Geophysicist (Sc-D) |
| Expert (Hydro chemistry) | - Dr. Rajnikant Sharma | Chemist (Sc-C) |

10. TEAM-MEMBER-WISE RESPONSIBILITIES AND MONTHLY TARGETS FOR ENTERING IN THE MIS

10.1 Role and Responsibility

| Role | Responsibilities | Indicative Designation |
|---|--|---------------------------|
| Team Lead -Priyanka B. Sonbarse (Sc-C) | Planning, Supervision and Execution of the Project Work distribution and monitoring of activities of other team members Preparation of the inception report. Timely Delivery of the envisaged Outputs Finalisation of the management plan Presentations at different forums, sharing of the outputs. Preparation of the draft report as per the approved Quality Standards and its Final Submission. Other members of the team will assist the team lead. | Hydrogeologist |

| Expert | - Field Data Collection (Exploration, Pz construction, Water Level, | Hydrogeologist |
|--------------|---|----------------|
| (Hydrogeolog | Water Quality, Pumping Tests, Infiltration tests, demand/supply data, | |
| v)-1 | sample surveys and others) | |
| Sarboday | - Sample collection for quality studies | |
| Barik | - Secondary Data collection | |
| | - Entering data in database (WIMS) | |
| (A.11g) | - Integration of data, preparation of thematic maps, preparation cross | |
| | sections etc. | |
| | - Consultation with allied experts like agriculture, irrigation, agro- | |
| | economics etc. | |
| | - Preparation of Management Plan | |
| | - Assisting the Team Lead in preparing maps and reports | |
| Expert | - Field Geophysical Surveys | Geophysicist |
| (Geophysics) | - Interpretation of field data | |
| -Dr. Ajava | - Entering data in database (WIMS) | |
| Ku. Sinha | - Integration with existing geophysical and lithology data | |
| (Sc-D) | - Preparation of inferred lithologs | |
| (30 2) | - Suggesting potential sites for construction of water wells/artificial | |
| | recharge | |
| | - Preparation of Tables, graphs and maps for reports | |
| | - Assisting the Team Lead in preparing the Report | |
| Expert | - Sample collection for quality studies | Chemist |
| (Hydro | - Analysis of samples. | |
| chemistry) | - Integration with existing data | |
| Dr. | - Validation and interpretation of data | |
| Rainikant | | |
| Sharma | - Preparation of Tables, graphs and maps for reports | |
| (Sc-C) | - Assisting the Team Lead in preparing the reports | |

10.2 Monthly Target for entering in the MIS

| Team Lead | April – Data Gap Analysis and Preparation of Inception Report | | | | | |
|-----------------|---|--|--|--|--|--|
| Priyanka B. | | | | | | |
| Sonbarse (Sc-C) | | | | | | |
| | May - Field Data Collection | | | | | |
| | June - Field Data Collection | | | | | |
| | July- Data Analysis and Interpretation | | | | | |
| | August- Data Analysis and Interpretation | | | | | |
| | September - Data Analysis and Interpretation | | | | | |
| | Octuber – Preparation for Midterm Work-Shop for NLEC | | | | | |
| | November - Field Data Collection and preparation of Management Plan | | | | | |
| | December -Sample Surveys and User Feedback | | | | | |
| | January – Preparation of Draft Report | | | | | |
| | February–Field Truthning of Management Plan | | | | | |
| | March - Sharing of the reports with CHQ, SGWCC and DM/DC | | | | | |

| Expert | - May - Field Data Collection and other ongoing field activities. | | | | | | | | |
|------------------|--|--|--|--|--|--|--|--|--|
| (Hydrogeology)-1 | | | | | | | | | |
| Sarboday Barik | | | | | | | | | |
| (A.Hg) | | | | | | | | | |
| | - June - Field Data Collection | | | | | | | | |
| | - July–Data entery in WIMS | | | | | | | | |
| | August- Dataentery in WIMS and other ongoing field activities. | | | | | | | | |
| | September -Data Analysis and Interpretation | | | | | | | | |
| | - Octuber – Preparation for Midterm Work-Shop for NLEC | | | | | | | | |
| | • November - Field Data Collection and preparation of Management Plan and other ongoing field activities. | | | | | | | | |
| | - December -Sample Surveys and User Feedback and Data entry in WIMS | | | | | | | | |
| | - January – Preparation of Draft Report and other ongoing field activities. | | | | | | | | |
| | - February – Field Truthning of Management Plan and other ongoing field activities. | | | | | | | | |
| | - March - Sharing of the reports with CHQ, SGWCC and DM/DC and other ongoing field activities | | | | | | | | |
| Evnort | May Field Geophysical Data Collection and other engoing field | | | | | | | | |
| (Coophysics) | - Way - Field Geophysical Data Concetton and other ongoing field | | | | | | | | |
| Dr Ajava Ku | activities. | | | | | | | | |
| Sinha (Sc-D) | | | | | | | | | |
| | - June - Field Data Collection | | | | | | | | |
| | | | | | | | | | |
| | - July–Data Interpretaion and selection of sites suitable for drilling and | | | | | | | | |
| | Data entery in WIMS. | | | | | | | | |
| | - August- Dataentery in WIMS and other ongoing field activities. | | | | | | | | |
| | - September -Data Analysis and Interpretation | | | | | | | | |
| | - Octuber – Preparation for Midterm Work-Shop for NLEC | | | | | | | | |
| | - November - Field Data Collection and preparation of Management Plan and other ongoing field activities. | | | | | | | | |
| | - December -Data entry in WIMS | | | | | | | | |
| | - January – Preparation of Draft Report and other ongoing field activities. | | | | | | | | |
| | - February – Field Truthning of Management Plan and other ongoing field activities. | | | | | | | | |
| | - March - Sharing of the reports with CHQ, SGWCC and DM/DC and other ongoing field activities. | | | | | | | | |

| Expert (Hydro chemistry) Dr. Rajnikant Sharma (Sc-C) | - May - Field Sample Data Collection and other ongoing field activities. |
|--|--|
| | - June - Field sample Collection and analysis. |
| | - July–Field sample Collection and analysis. and Data entery in WIMS. |
| | - August- Dataentery in WIMS and other ongoing field activities. |
| | - September -Data Analysis and Interpretation |
| | - Octuber – Preparation for Midterm Work-Shop for NLEC |
| | - November - Field Data Collection and preparation of Management Plan and other ongoing field activities. |
| | - December -Data entry in WIMS |
| | - January – Preparation of Draft Report and other ongoing field activities. |
| | - February – Preparation of Draft Report and other ongoing field activities. |
| | - March - Sharing of the reports with CHQ, SGWCC and DM/DC and other ongoing field activities. |

| | NAQUIM 2.0 Work Distribution Table (Month-Wise) for Raipur Urban Agglomerate | | | | | | | | | | | | | |
|-----|--|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Теа | im members: | Ms. Priyanka B. Sonbarse (Scientist C & Team Leader), Sh. SarbodayBarik (AHG) hydrogeologist-1, ,Sh A K Sinha (Scientist-D, Geophysist), Sh. Rajnikant Sharma Scientist C (Chemist)) | | | | | | | | | | | | |
| SI. | WORK ITEMS | Assignments to be carried out by officers | APR | ΜΑΥ | JUN | JUL | AUG | SEP | ОСТ | NOV | DEC | JAN | FEB | MAR |
| 1 | Base map Preparation | Priyanka Sonbarse& Sarboday Barik | | | | | | | | | | | | |
| 2 | Preparation of the Inception Report: | Priyanka Sonbarse& Sarboday Barik | | | | | | | | | | | | |
| 3 | Pre-Monsoon Field Data Collection | Priyanka Sonbarse& Sarboday Barik | | | | | | | | | | | | |

| NAQUIM 2.0 Work Distribution Table (Month-Wise) for Raipur Urban Agglomerate | | | | | | | | | | | | | | |
|--|-----------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Теа | m members: | Ms. Priyanka B. Sonbarse (Scientist C & Team Leader), Sh. SarbodayBarik (AHG) hydrogeologist-1, ,Sh A K Sinha (Scientist-D, Geophysist), Sh. Rajnikant Sharma Scientist C (Chemist)) | | | | | | | | | | | | |
| | | Assignments to be | | | | | | | | | | | | |
| | | carried out by | APR | MAY | JUN | JUL | AUG | SEP | ост | NOV | DEC | JAN | FEB | MAR |
| SI. | WORK ITEMS | officers | | | | | | | | | | | | |
| 4 | Pre-Monsoon | Ms. Priyanka B. | | | | | | | | | | | | |
| | Sample Surveys and | Sonbarse, Sh. Sarboday | | | | | | | | | | | | |
| | User Feedback | Bari , Sh A K Sinha, Sh. | | | | | | | | | | | | |
| | | Rajnikant Sharma | | | | | | | | | | | | |
| 5 | Pre-Monsoon Other | Ms. Priyanka B. | | | | | | | | | | | | |
| | on-going field | Sonbarse, Sh. Sarboday | | | | | | | | | | | | |
| | activities | Bari ,Sh A K Sinha | | | | | | | | | | | | |
| | Exploratory drilling, | | | | | | | | | | | | | |
| | geophysical studies, | | | | | | | | | | | | | |
| | data entry in WIMS | | | | | | | | | | | | | |
| 6 | Data Analysis and | Ms. Priyanka B. | | | | | | | | | | | | |
| | Interpretation | Sonbarse, Sh. Sarboday | | | | | | | | | | | | |
| | | Bari ,Sh A K Sinha, Sh. | | | | | | | | | | | | |
| | | Rajnikant Sharma | | | | | | | | | | | | |
| 7 | Workshops and | Ms. Priyanka B. | | | | | | | | | | | | |
| | mid-term review by | Sonbarse | | | | | | | | | | | | |
| | NLEC | | | | | | | | | | | | | |
| 8 | Post-monsoon Field | Ms. Priyanka B. | | | | | | | | | | | | |
| | Data Collection | Sonbarse, Sh. Sarboday | | | | | | | | | | | | |
| | | Bari ,Sh A K Sinha, Sh. | | | | | | | | | | | | |
| | | Rajnikant Sharma | | | | | | | | | | | | |
| 9 | Post-monsoon | Ms. Priyanka B. | | | | | | | | | | | | |
| | Sample Surveys and | Sonbarse, Sh. Sarboday | | | | | | | | | | | | |
| | User Feedback | Bari ,Sh A K Sinna, Sh. | | | | | | | | | | | | |
| 10 | Post Monsoon | Ma Drivanka D | | | | | | | | | | | | |
| 10 | Other on going field | Sonbarco Sh. Sarbaday | | | | | | | | | | | | |
| | activities | Pari Sh A K Sinha Sh | | | | | | | | | | | | |
| | Exploratory drilling | Dail, SII A K Sillid, Sil. | | | | | | | | | | | | |
| | aponhysical studios | | | | | | | | | | | | | |
| | data entry in WIMS | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

| | NAQUIM 2.0 Work Distribution Table (Month-Wise) for Raipur Urban Agglomerate | | | | | | | | | | | | | |
|-----|--|--|----------------|-------------------|------------------|-----|---------------|---------------|-----------------|------------------|----------------|----------------|-----------------|--------------|
| Теа | m members: | Ms. Priyanka B. Son hydrogeologist-1, ,Sl Scientist C (Chemist)) | barse h A I | e (Scie C Sinh | entist na (So | C & | Team st-D, | n Lea Geop | der), ohysis | Sh. So t), Sh | arboa . Raj | layBa nikan | rik (/ t Sho | AHG) arma |
| | | Assignments to be | | | | | | | | | | | | |
| | | carried out by | APR | MAY | JUN | JUL | AUG | SEP | ост | NOV | DEC | JAN | FEB | MAR |
| SI. | WORK ITEMS | officers | | | | | | | | | | | | |
| 11 | Data Analysis and | Ms. Priyanka B. | | | | | | | | | | | | |
| | Draft Report | Sonbarse, Sh. Sarboday | | | | | | | | | | | | |
| | Preparation | Bari ,Sh A K Sinha, Sh. | | | | | | | | | | | | |
| | | Rajnikant Sharma | | | | | | | | | | | | |
| 12 | Other ongoing field | Sh. Sarboday Bari ,Sh A | | | | | | | | | | | | |
| | activities | K Sinha, Sh. Rajnikant | | | | | | | | | | | | |
| | - Exploratory | Sharma | | | | | | | | | | | | |
| | drilling, geophysical | | | | | | | | | | | | | |
| | studies, data entry | | | | | | | | | | | | | |
| | in WIMS | | | | | | | | | | | | | |
| 13 | Ground Water | Ms. Priyanka B. | | | | | | | | | | | | |
| | Management | Sonbarse, Sh. Sarboday | | | | | | | | | | | | |
| | Plan;Fieldtruthing | Bari ,Sh A K Sinha, Sh. | | | | | | | | | | | | |
| | of Management | Rajnikant Sharma | | | | | | | | | | | | |
| | plan & RWH & AR | | | | | | | | | | | | | |
| | Plan | | | | | | | | | | | | | |
| 14 | Other ongoing field | Sh. Sarboday Bari ,Sh A | | | | | | | | | | | | |
| | activities | K Sinha, Sh. Rajnikant | | | | | | | | | | | | |
| | - Exploratory | Sharma | | | | | | | | | | | | |
| | drilling, geophysical | | | | | | | | | | | | | |
| | studies, data entry | | | | | | | | | | | | | |
| | in WIMS | | | | | | | | | | | | | |
| 15 | Modification of | Ms. Priyanka B. | | | | | | | | | | | | |
| | draft report with | Sonbarse, Sh. Sarboday | | | | | | | | | | | | |
| | additional | Bari ,Sh A K Sinha, Sh. | | | | | | | | | | | | |
| | information | Rajnikant Sharma | | | | | | | | | | | | |
| | collected by | | | | | | | | | | | | | |
| | the above | | | | | | | | | | | | | |
| | mentioned field | | | | | | | | | | | | | |
| | checks | | | | | | | | | | | | | |
| | - Scrutiny and | | | | | | | | | | | | | |

| | NAQUIM 2.0 Work Distribution Table (Month-Wise) for Raipur Urban Agglomerate | | | | | | | | | | | | | |
|--|---|--|-----|-------------------|------------------|---------------|---------------|---------------|-----------------|------------------|----------------|----------------|----------------|--------------|
| Team members: Ms. Priyanka B. Son hydrogeologist-1, ,S Scientist C (Chemist) | | | | e (Scie K Sinh | entist na (So | C & cienti | Team st-D, | n Lea Geop | der), ohysis | Sh. Sı t), Sh | arbod . Raj | layBa nikan | rik (/ t Sh | AHG) arma |
| SI. | WORK ITEMS | Assignments to be carried out by officers | APR | МАУ | JUN | JUL | AUG | SEP | ост | NOV | DEC | JAN | FEB | MAR |
| | Finalisation of the Report | | | | | | | | | | | | | |
| 16 | Other ongoing field activities - Exploratory drilling, geophysical studies, data entry in WIMS | Ms. Priyanka B. Sonbarse, Sh. Sarboday Bari ,Sh A K Sinha, Sh. Rajnikant Sharma | | | | | | | | | | | | |
| 17 | Sharing of the reports with CHQ, SGWCC and DM/DC - Brochure to be prepared by 31st March. | Ms. Priyanka B. Sonbarse, | | | | | | | | | | | | |