

No. WQ-11016/1/2014-WQ
Government of India
Ministry of Drinking Water and Sanitation
(Water Quality Section)

Pt. Deedayal Antyodaya Bhawan
4th Floor, CGO Complex, Lodhi Road
New Delhi - 110 003.
Dated the 07th May, 2018.


The Director,
National Remote Sensing Centre,
Balanagar,
Hyderabad-500625

MINUTES OF VIDEO CONFERENCE HELD ON 18TH APRIL, 2018 BETWEEN NATIONAL REMOTE SENSING CENTRE AND MINISTRY OF DRINKING WATER AND SANITATION TO DISCUSS THE PHYSICAL AND FINANCIAL PROGRESS OF HYDRO-GEO MORPHOLOGICAL MAPS WITH GROUND WATER QUALITY LAYER UNDER PHASE-IV.

Sir,

The Minutes of Video Conference held on 18th April, 2018 under the Chairmanship of JS (Water) and attended by officials of National Remote Sensing Centre and Ministry of Drinking Water and Sanitation under to review the physical and financial progress of HGM Maps is forwarded herewith for further necessary action please.

Yours faithfully,


(P.J. Thomas)
Section Officer (WQ)
Tel: 24364675

Copy for information and necessary action to:-

- (1) Dr. P.V.N. Rao, Dy. Director, National Remote Sensing Centre (NRSC), Balanagar, Hyderabad-500625, Telangana.
- (2) Dr. I.C. Das, Head of Hydrogeology Division, National Remote Sensing Centre (NRSC), Balanagar, Hyderabad-500625, Telangana.
- (3) Dr Vinod Kumar, Group Head, Geosciences Group, National Remote Sensing Centre (NRSC), Balanagar, Hyderabad-500625, Telangana.
- (4) Dr. Dinesh Chand, Addl Adviser (PHE)/D Rajasekhar, Dy Adviser (WQ)/Shri Santosh R, Assistant Adviser(WQ) of Ministry of Drinking Water and Sanitation.
- (5) PS to JS (W).

MINUTES OF THE VIDEO CONFERENCE HELD ON 18TH APRIL, 2018 BETWEEN NATIONAL REMOTE SENSING CENTRE AND MINISTRY OF DRINKING WATER AND SANITATION TO DISCUSS THE PHYSICAL AND FINANCIAL PROGRESS OF HYDRO-GEO MORPHOLOGICAL MAPS WITH GROUND WATER QUALITY LAYER UNDER PHASE-IV.

The Video Conference was held on 18th April, 2018 between officials of National Remote Sensing Centre and Ministry of Drinking Water and Sanitation. The Video Conference was chaired by Ms. V. Radha, IAS, Joint Secretary (Water).

2. After introduction of the participants, a brief presentation of Hydro-geo-morphological maps was made by National Remote Sensing Centre (NRSC), appraising the present status of the project explaining the reasons for the delay and requested for the extension to period of project upto Dec 2018 to complete the remaining work of project.

3. After detailed deliberation, following were concluded:-

- JS (Water) has observed that the extension of 9 months from 01 April 2018 to December 2018 to complete the remaining work of the project is too long and NRSC was requested to complete the work in a shorter time. NRSC officials assured that they will try to complete the work as early as possible.
- JS (Water) desired that NRSC should draw a state-wise strategic launching programme for uploading the data of HGM Maps on the Bhuvan Portal. The data in respect of the states for which the work has been completed will be uploaded immediately for the use of states.
- NRSC will apprise about the kind of support required from the Ministry in order to complete the project within stipulated time.
- Capacity building training on the use of HGM maps will be organized by NRSC for the officials of North-Eastern States in the month of May, 2018.
- Funds will be released to NRSC on receipt of demand and requisite documents.
- NRSC has submitted requisite physical and financial progress in the prescribed format to DA (WQ) on 18th April 2018 through e-mail. However, as on date, the NRSC officials are yet to submit their proposal with UC and ASA for release of additional funds.
- NRSC should come up with new suggestions, plans and proposals for the areas affected with scarcity of water, drought and over-exploited water areas for 115 aspirational districts using satellite data.
- Complete status of physical and financial progress of HGM maps is annexed.
- Dy Adviser (D. Rajasekhar) will visit to NRSC Hyderabad after 05 May 2018 in order to resolve the data issues with the problematic states in consultation with NRSC during his stay at Hyderabad.

4. The Video Conference was chaired by Mrs. V. Radha, Joint Secretary (Water) and attended by Dr. P.V.N. Rao, Dy. Director and Dr I.C.Das, Head (Geology) of NRSC, Dr. Dinesh Chand, Addl Adviser (PHE), D Rajasekhar, Dy Adviser (WQ) and Shri Santosh R, Assistant Adviser(WQ) of Ministry of Drinking Water and Sanitation.

5. VC was closed with a vote of thanks.

DETAILS OF MAPS PREPARED BY NRSC UNDER PHASE-IV OF HGM MAPS FOR TASK-1

Total No. of maps and Images to be prepared by NRSC						Total No. of maps and Images prepared by NRSC				Remarks
Sl.	Name of the State	No of maps	Cost of Maps	No of Images	Cost of Images	No of maps	Cost of Maps	No of Images	Cost of Images	
1	Uttar Pradesh	258	43,733,580	311	31,10,000	258 (P)	3,18,01,080	311	31,10,000	GWP 100% Completed; GWQ 80 % Completed
2	West Bengal	70	11,865,700	108	10,80,000	70 (P,Q)	1,18,65,700	108	1,0,80,000	GWP&GW Q 100% Completed
3	Bihar	140	23,731,400	180	18,00,000	140(P)	1,72,56,400	180	18,00,000	GWP 100% completed; GWQ not taken up
4	Delhi	3	508,530	7	70,000	3 (P)	3,69,780	7	70,000	GWP 100%; GWQ not taken up
5	Goa	5	847,550	13	1,30,000	5 (P,Q)	1,30,000	13	1,30,000	GWP&GW Q 100% Completed
6	Manipur	39	6,610,890	49	4,90,000	39(P)	48,07,140	49	4,90,000	GWP 100% Completed; GWQ 70 % Completed
7	Meghalaya	39	6,610,890	54	5,40,000	39(P)	48,07,140	54	5,40,000	GWP 100% Completed; GWQ 60 % Completed
8	Mizoram	37	6,271,870	47	4,70,000	37(P,Q)	62,71,870	47	4,70,000	GWP&GW Q 100% Completed
9	Nagaland	28	4,746,280	43	4,30,000	28(P)	34,51,280	43	4,30,000	GWP 100% Completed; GWQ 60 % Completed

Total No. of maps and Images to be prepared by NRSC						Total No. of maps and Images prepared by NRSC				Remarks
Sl.	Name of the State	No of maps	Cost of Maps	No of Images	Cost of Images	No of maps	Cost of Maps	No of Images	Cost of Images	
10	Pondicherry	1	169,510	4	40,000	1(P)	1,23,260	4	40,000	GWP&GWQ 100% Completed
11	Sikkim	14	2,373,140	19	1,90,000	14(P)	17,25,640	19	1,90,000	GWP 100%; GWQ not taken up
12	Tirpura	20	3,390,200	29	2,90,000	20(P)	24,65,200	29	2,90,000	GWP 100% Completed; GWQ 60 % Completed
13	Andaman & Nicobar Islands	20	3,390,200	53	5,30,000	20(P)	24,65,200	53	5,30,000	GWP 100% Completed; GWQ 70 % Completed
14	Chandigarh	1	169,510	4	40,000	1(P,Q)	1,69,510	4	40,000	GWP&GWQ 100% Completed
15	Daman Diu	1	169,510	7	70,000	1(P,Q)	1,69,510	7	70,000	GWP&GWQ 100% Completed
16	Dadar and Nagar Haveli	2	339,020	3	30,000	2(P,Q)	3,39,020	3	30,000	GWP&GWQ 100% Completed
17	Lakshadweep	3	508,530	22	2,20,000	3(P)	3,69,780	22	2,20,000	GWP 100% Completed; GWQ 70 % Completed
	TOTAL	681	11,54,36,310	953	95,30,000		3,05,68,480			

** Out of total task of Rs. 11,54,36,310, work worth of Rs. 6,46,48,769 (100 % for GWP & 67% for GWQ has been completed)

DETAILS OF WATER KITS DISTRIBUTED AMONG STATES UNDER PHASE-IV OF HGM MAPS FOR TASK-1

Total No. of water Kits to be distributed by NRSC				Total No of Kits distributed by NRSC			
S.No.	Name of the State	No of Water Kits	Cost of water Kits	No Water Kits	Rate	Cost	Remarks
1	Uttar Pradesh			75	5,000	3,75,000	
2	West Bengal			14	5,000	70,000	
3	Bihar			38	5,000	1,90,000	
4	Delhi			-	5,000	-	
5	Goa			2	5,000	10,000	
6	Manipur			-	5,000	-	
7	Meghalaya			7	5,000	35,000	
8	Mizoram			8	5,000	40,000	
9	Nagaland			11	5,000	55,000	
10	Pondicherry			-	5,000	-	
11	Sikkim			4	5,000	20,000	
12	Tirpura			-	5,000	-	
13	Andman & Nicobar Islands			3	5,000	15,000	
14	Chandigarh			-	5,000	-	
15	Daman Diu			-	5,000	-	
16	Dadar and Nagar Haveli			-	5,000	-	
17	Lakshadweep			1	5,000	5,000	
	TOTAL	163	8,15,000	163		8,15,000	

**DETAILS OF TRAINING/ WORK SHOP ORGANISED BY NRSC FOR 600 OFFICIALS FOR STATES/UT UNDER PHASE-
IV OF HGM MAPS FOR TASK-1**

Total No. of training to be conducted by NRSC = 30, participants from States/ UTS in each training : 20 and Cost of per workshop : Rs. 88,400/- Total Cost Rs. 26,52,000/-					
No of Trg conducted	No officials attended	Name participants states/UTs	Expenditure incurred.	Remarks	
1	30	PHED, RWSS & State Remote Sensing Centre of NE states			
2	15	UP Jal Nigam officers & RSAC- UP officers			
3	40	RWSS , Presidency University & State Remote Sensing Centre WB			
4	10	Pondicherry University			
5	10	Goa University & PHED officers of Goa			
6.	10	Bhartidarshan University, Trichi & Priest University			
Total Cost			26,52,000		

DETAILS OF MAPS PREPARED BY NRSC UNDER PHASE-IV OF HGM MAPS FOR TASK-2

Phase	Total No. of maps to be prepared by NRSC				Total No. of maps prepared by NRSC			
	Sl.	Name of the State	No of maps	Cost of Map	No of maps	Rate	Cost	Remarks
Phase-I	1	Andhra Pradesh (part)	244	11,285,000	244	46,250	1,12,85,000	Completed (100%)
	2	Chhattisgarh	202	9,342,500	202	46,250	-	In Progress (80%)
	3	Karnataka	267	12,348,750	267	46,250	1,23,48,750	Completed (100%)
	4	Kerala	67	3,098,750	67	46,250	-	In Progress (70%)
	5	Madhya Pradesh	458	21,182,500	458	46,250	-	In Progress (90%)
	6	Rajasthan	416	19,240,000	416	46,250	-	In Progress (80%)
Phase-II	7	Gujarat	284	13,135,000	284	46,250	-	In Progress (60%)
	8	Himachal Pradesh	91	4,208,750	91	46,250	-	In Progress (60%)
	9	Jharkhand	129	5,966,250	129	46,250	59,66,250	Completed (100%)
	10	Orissa	220	10,175,000	220	46,250	-	In Progress (70%)
Phase-III-A	11	Telangana	204	9,435,000	204	46,250	94,35,000	Completed (100%)
	12	Assam	103	4,763,750	103	46,250	-	In Progress (70%)
	13	Jammu & Kashmir	360	16,650,000	360	46,250	-	In Progress (50%)
	14	Maharashtra	455	21,043,750	455	46,250	-	In Progress (90%)
	15	Punjab	82	3,792,500	82	46,250	-	In Progress (90%)
	16	Uttarakhand	86	3,977,500	86	46,250	-	In Progress (60%)
Total			3,668	169,645,000				~ 72.5% completed Rs.9,46,92,250

**Out of Total cost of Rs.16,96,45,000, mapping work worth of Rs. 13,37,27,250 has been completed

DETAILS OF WATER KITS DISTRIBUTED AMONG STATES UNDER PHASE-IV OF HGM MAPS FOR TASK-2

Total No. of water Kits to be distributed by NRSC					Total No of Kits distributed by NRSC			
Phase	Sl.	Name of the State	No of Water Kits	Cost of water Kits	No Water Kits	Rate	Cost	Remarks
Phase-I	1	Andhra Pradesh (part)			-	5,000	-	
	2	Chhattisgarh			-	5,000	-	
	3	Karnataka			-	5,000	-	
	4	Kerala			14	5,000	70,000	
	5	Madhya Pradesh			50	5,000	2,50,000	
	6	Rajasthan			33	5,000	1,65,000	
Phase-II	7	Gujarat			-	5,000	-	
	8	Himachal Pradesh			-	5,000	-	
	9	Jharkhand			24	5,000	1,20,000	
	10	Orissa			30	5,000	1,50,000	
Phase-III-A	11	Telangana			-	5,000	-	
	12	Assam			27	5,000	1,35,000	
	13	Jammu & Kashmir			22	5,000	1,10,000	
	14	Maharashtra			33	5,000	2,35,000	
	15	Punjab			22	5,000	1,10,000	
	16	Uttarakhand			13	5,000	65,000	
		Total	350	17,50,000	268		13,40,000	

**DETAILS OF TRAINING/ WORK SHOP ORGANISED BY NRSC FOR 600 OFFICIALS FOR STATES/UT UNDER PHASE-
IV OF HGM MAPS FOR TASK-2**

Total No. of training to be conducted by NRSC = 30, participants from States/ UTS in each training : 20 and Cost of per workshop : Rs. 88,400/- Total Cost Rs. 26,52,000/-					
No of Trg conducted	No officials attended	Name participants states/UTs	Expenditure incurred.	Remarks	
1	30	Gujarat Jalseva Training Institute, Gandhinagar			
2	20	TWAD, Channai			
3	20	SRSAC, Jodhpur, PHED Rajasthan			
4	30	CCDU, Rajasthan			
5	15	Gulbarga University, Karnataka			
6	50	PHED, RWSS Karnataka			
7	10	State Remote Sensing Application Centre, Arunachal Pradesh			
8	10	APSAC, Andhra Pradesh & CESS, Trivandrum			
9	40	PHED officers of Gujarat, Maharashtra & Goa			
10	10	PHED & RWSS officers of Andhra Pradesh, Kerala, Karnataka, Telengana			
Total			Rs. 26,52,000		

DETAILS OF MAPS FOR DATA RATIFICATION BY NRSC UNDER PHASE -IV OF HGM MAPS FOR TASK-3

No of Maps for data ractification by NRSC					No. of Maps in which data ractified by NRSC			
Phase	Sl.	Name of the State	No of maps	Cost of Map	No of maps	Rate	Cost	Remarks
Phase-I	1	Andhra Pradesh (part)	244	1634800	244	6,700	1634800	Completed
	2	Chhattisgarh	202	1353400	202	6,700	1353400	Completed
	3	Karnataka	267	1788900	267	6,700	1788900	Completed
	4	Kerala	67	448900	67	6,700	448900	Completed
	5	Madhya Pradesh	458	3068600	458	6,700	3068600	Completed
	6	Rajasthan	416	2787200	416	6,700	2787200	Completed
Phase-II	7	Gujarat	284	1902800	284	6,700	-	In progress
	8	Himachal Pradesh	91	609700	91	6,700	609700	Completed
	9	Jharkhand	129	864300	129	6,700	864300	Completed
	10	Orissa	220	1474000	220	6,700	1474000	Completed
Total			2,378	1,59,32,600	2094		1,40,29.800	

DETAILS OF EXPENDITURE INCURRED BY NRSC FOR CREATION OF GEO-DATA BASE UNDER PHASE-IV OF HGM MAPS FOR TASK-3								
Amount Sanctioned	Exp on creating geo-data base	Exp on work- stations	Exp on servers	Exp on notebook computer	Exp on Network and cables etc.	Exp on GIS,RDBMS & SPATIAL etc	Total Expenditure	Balance to be paid
11,250,000							-	

** Fund has not been utilized, as the groundwater related database has been hosted in Bhuvan –Bhujal geo-portal

(Link: <http://bhuvan-noeda.nrsc.gov.in/projects/gwis/>)

DETAILS OF OTHER CONNECTED EXPENDITURE OF PHASE-IV OF HGM MAPS INCURRED BY NRSC
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S.No.	Details of expenditure	Amount Sanctioned by MoDWS	Amount Expended by NRSC	Balance to be paid	Ramarks
1	Project management including facilities and equipment (10% of cost excluding satelite data cost)	32,013,291			
2	Overheads (15% of cost excluding satellite data cost)	48,019,937			
3	Service tax @ 10.3% as per latest service Tax rules.	42,198,702			

TECHNICAL PROGRESS UNDER NRDWP

GWP Mapping Status		GWQ Mapping Status	
State Name	Status	State Name	Status
Andaman & Nicobar Islands	Completed (100%)	Andaman & Nicobar Islands	Mapping in Progress (70%)
Andhra Pradesh	Completed (100%)	Andhra Pradesh	Mapping Completed (100%)
Arunachal Pradesh	Completed (100%)	Arunachal Pradesh	Mapping in Progress (60%)
Bihar	Completed (100%)	Bihar	Mapping not taken up
Chandigarh	Completed (100%)	Chandigarh	Mapping in Progress (90%)
Chhattisgarh	Completed (100%)	Chhattisgarh	Mapping in Progress (90%)
Daman & Diu	Completed (100%)	Daman Diu	Mapping Completed (100%)
Dadra and Nagar Haveli	Completed (100%)	Dadra and Nagar Haveli	Mapping Completed (100%)
Goa	Completed (100%)	Goa	Mapping Completed (100%)
Delhi	Completed (100%)	Delhi	Mapping Completed (100%)
Gujarat	Completed (100%)	Gujarat	Mapping in Progress (50%)
Haryana	Completed (100%)	Haryana	Mapping in Progress (60%)
Himachal Pradesh	Completed (100%)	Himachal Pradesh	Mapping in Progress (50%)
Jammu & Kashmir	Completed (100%)	Jammu & Kashmir	Mapping in Progress (50%)
Jharkhand	Completed (100%)	Jharkhand	Mapping Completed (100%)
Karnataka	Completed (100%)	Karnataka	Mapping Completed (100%)
Kerala	Completed (100%)	Kerala	Mapping in Progress (70%)
Lakshadweep	Completed (100%)	Lakshadweep	Mapping in Progress (70%)
Maharashtra	Completed (100%)	Maharashtra	Mapping in Progress (90%)
Madhya Pradesh	Completed (100%)	Madhya Pradesh	Mapping in Progress (90%)

Manipur	Completed (100%)	Manipur	Mapping in Progress (70%)
Meghalaya	Completed (100%)	Meghalaya	Mapping in Progress (70%)
Mizoram	Completed (100%)	Mizoram	Mapping Completed (100%)
Nagaland	Completed (100%)	Nagaland	Mapping in Progress (60%)
Orissa	Completed (100%)	Orissa	Mapping in Progress (70%)
Pondicherry	Completed (100%)	Pondicherry	Mapping Completed (100%)
Punjab	Completed (100%)	Punjab	Mapping in Progress (90%)
Sikkim	Completed (100%)	Sikkim	Mapping not taken up
Tamil Nadu	Completed (100%)	Tamil Nadu	Mapping Completed (100%)
Telangana	Completed (100%)	Telangana	Mapping Completed (100%)
Tripura	Completed (100%)	Tripura	Mapping in Progress (60%)
Rajasthan	Completed (100%)	Rajasthan	Mapping in Progress (90%)
Uttar Pradesh	Completed (100%)	Uttar Pradesh	Mapping in Progress (90%)
Uttarakhand	Completed (100%)	Uttarakhand	Mapping in Progress (60%)
West Bengal	Completed (100%)	West Bengal	Mapping Completed (100%)