



Office of the Chief Engineer (BODHI)
Water Resources Department,
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Memo No. /403 / U.S.R./57 part IX/R&C /BODHI

Bhopal, Dated 6/6/2020

Sub: - Amendment No.9 to the Unified Schedule of Rates for Works of Water Resources Department in Madhya Pradesh in force from 01/09/2017.

The unified schedule of rates for Water Resources Department in Madhya Pradesh, in force from 01/09/2017 issued and has been uploaded on departmental web site. In continuation to the amendment No.1 (issued vide letter No. 746/ U.S.R./57 part IX/R&C /BODHI Bhopal, Date 17.11.2017), amendment No.2 (issued vide letter No. 781/ U.S.R./57 part IX/R&C /BODHI Bhopal, Date 29.11.2017), amendment No.3 (issued vide letter No. 855/ U.S.R./57 part IX/R&C /BODHI Bhopal, Date 27.12.2017), amendment No.4 (issued vide letter No. 55/ U.S.R./57 part IX/R&C /BODHI Bhopal, Date 29.01.2018), amendment No.5 (issued vide letter No. 623/ U.S.R./57 part IX/R&C /BODHI Bhopal, Date 18.09.2018), amendment No.6 (issued vide letter No. 208/ U.S.R./57 part IX/R&C /BODHI Bhopal, Date 27.04.2019), amendment No.7 (issued vide letter No. 224/ U.S.R./57 part IX/R&C /BODHI Bhopal, Date 14.05.2019), and amendment No.8 (issued vide letter No. 500/ U.S.R./57 part IX/R&C /BODHI Bhopal, Date 10.12.2019) Following Amendment No. 9 is issued in the above stated unified schedule of rates.

AMENDMENT NO.9

CHAPTER NO.1 SURVEY AND INVESTIGATION

1. Item No. 1.35, 1.36, 1.37, 1.38, 1.39 and 1.40 of Chapter No-1 completely deleted.
2. New item No. 1.45 to 1.113 are added in Chapter No-1 on page No.21, as below:-

Item No.	Description of Item	Unit	Rate	Remark
1.45	Automated Rain Gauge Station (ARG) Equipment set with necessary hardware as per technical specification	Per No	40678	
1.46	Automated Water Leave Recorder (non contact - RADAR) for River /Canals /Reservoirs having 15m range with all necessary hardware as per technical specifications	Per No	105932	
1.47	Automated Water Leave Recorder (non contact - RADAR) for River /Canals /Reservoirs having 20m range with all necessary hardware as per technical specifications	Per No	118644	
1.48	Automated Water Leave Recorder (non contact - RADAR) for River /Canals /Reservoirs having 35m range with all necessary hardware as per technical specifications	Per No	161017	
1.49	Automated Water Leave Recorder (non contact - RADAR) for River /Canals /Reservoirs having 70m range with all necessary hardware as per technical	Per No	211864	

	specifications			
1.50	Automated Water Level Recorder (Shaft Encoder sensor) for Reservoirs having 50m range with all necessary hardware as per technical specification	Per No	169492	
1.51	Automated Water Level recorder (Submersible pressure Transducer) for Reservoirs having 0-30m range with all necessary hardware as per technical specification	Per No	110169	
1.52	Automated Water Level Recorder (Ultrasonic Sensor) for Reservoirs having 0-10m range with all necessary hardware as per technical specifications	Per No	67797	
1.53	Supply of Shaft Encoder based rotary position sensor with Digital Display Type Gate Position Sensors for indication and monitoring of Spillway gates, intake Gates .Silt flushing gates including cabling & integration with data logger as per technical specification	Per No	67797	
1.54	Air Temperature & Relative Humidity sensor , cable with Radiation shield ,Equipment set with necessary hardware as per technical specifications .	Per No	50847	
1.55	Wind speed & wind direction sensor and cable set with necessary hardware as per technical specifications	Per No	101695	
1.56	Atmospheric Pressure sensor and cable set with necessary hardware as per technical specifications	Per No	76271	
1.57	Solar Radiation sensor and cable set with necessary hardware as per technical specifications	Per No	63559	
1.58	Automated Pan evaporimeter equipment set with necessary hardware as per technical specifications which is to be integrated with Automatic Weather Station(AWS)	Per No	148305	
1.59	Data Logger 2 analogue channels type with INSAT,GSM & GPRS based telemetry including antenna and all necessary equipment for data transmission as per technical specifications -	Per No	220339	
1.60	Data Logger 2 analogue channels type with GSM & GPRS based telemetry including antenna and all necessary equipment for data transmission as per technical specifications .	Per No	127119	
1.61	Data Logger 8 analogue channels type with INSAT GSM & GPRS based telemetry including antenna and all necessary equipment for data transmission as per technical specifications -	Per No	254237	
1.62	Data Logger 8 analogue channels type with GSM & GPRS based telemetry including antenna and all necessary equipment for data transmission as per technical specifications	Per No	169492	
1.63	Solar panel, charger regulator, batteries, lighting arrestor with connectors, NEMAX box to suit master unit with locking, cables and conduit for cables; mast to mount DCP as per technical specifications	Per No	101695	
1.64	Supply of Acoustic Doppler current Profiler (ADCP) with bottom tracking facilities, associated peripherals,	Per No	2711864	

	Laptop along with software and with all accessories for discharge measurement of rivers, attachments at site. complete as per technical specifications			
	Installation testing & Commissioning of RTDAS			
1.65	Installation testing & Commissioning of Data Logger with 2 AI sensor input type, with INSAT, GSM & GPRS based telemetry including antenna and all necessary equipment for data transmission as per technical specifications	Per No	10714	
1.66	Installation testing & commissioning of Data Logger with 2 AI sensor input type with GSM & GPRS based telemetry including antenna and all necessary equipment for data transmission as per technical specifications	Per No	10714	
1.67	Installation testing & commissioning of Data Logger with 8AI sensor input type with INSAT, GSM & GPRS based telemetry including antenna and all necessary equipment for data transmission as per technical specifications	Per No	10714	
1.68	Installation testing & commissioning of Data Logger with 8AL sensor input type with GSM & GPRS based telemetry including antenna and all necessary equipment for data transmission as per technical specifications	Per No	10714	
1.69	Installation testing & commissioning of Solar panel, charger regulator, batteries, lightening arrestor with all connectors, NEMA4X box to suit master unit with locking, cables and conduit for cables, associated civil works for mast to mount DCP. as per technical specifications.	Per No	22321	
1.70	Installation of Chain link fencing of (5m*5m*2m) along with lockable gates for external protection of Sensors and DCP at RTDAS as per technical specifications.	Per No	62500	
1.71	Installation Chain link fencing of 10m*10m*2m along with lockable gates for external protection of Sensors and DCP at RTDAS as per technical specifications	Per No	107143	
1.72	Installation Testing & Commissioning of Automated Water Level Recorder (non contact RADAR) for River /Canal /Reservoirs and associated civil works for mounting the Radar having 15m range with all necessary hardware as per technical specifications	Per No	10714	
1.73	Installation Testing & Commissioning of Automated Water Level Recorder (non contact RADAR) for River /Canal /Reservoirs and associated civil works for mounting the Radar having 20m range with all necessary hardware as per technical specifications	Per No	10714	
1.74	Installation Testing & Commissioning of Automated Water Level Recorder (non contact RADAR) for River /Canal /Reservoirs and associated civil works for mounting the Radar having 35m range with all necessary hardware as per technical specifications	Per No	10714	

1.75	Installation Testing & Commissioning of Automated Water Level Recorder (non contact RADAR) for River /Canal /Reservoirs and associated civil works for mounting the Radar having 70m range with all necessary hardware as per technical specifications	Per No	10714	
1.76	Installation Testing & Commissioning of Automated Water Level Recorder (Shaft Encoder sensor) for Reservoirs have 50m range with all necessary hardware and associated civil work as per technical specifications	Per No	10714	
1.77	Installation Testing & Commissioning of Automated Water Level Recorder (Submersible Pressure Transducer) for Reservoirs having 0-30m range with all necessary mounting & installation hardware as per technical specifications	Per No	10714	
1.78	Installation Testing & Commissioning of Automated Water Level Recorder (Ultrasonic Sensor) for Reservoirs having 0-10m range with all necessary hardware and associated civil work as per technical specifications.	Per No	10714	
1.79	Installation Testing & Commissioning of Automated Spillway Gate Sensor on various gates including cabling conduit which has to be integrated with Data logger as per technical specifications	Per No	8929	
1.80	Installation Testing & Commissioning of Air temperature & Relative Humidity sensor with Radiation shield .Wind speeds & wind director sensor Atmospheric Pressure sensor, Solar Radiation sensor, Equipment set necessary cable and mounting hardware as per technical specifications	Per No	10714	
1.81	Installation Testing & Commissioning of Automated pan evaporimeter Equipment set necessary hardware as per technical specifications which is to be integrated with Automated weather stations (AWS)	Per No	10714	
1.82	Installation Testing & Commissioning of Acoustic Doppler Current Profiler (ADCP) with bottom tracking facilities associated peripherals Laptop along with software and with all accessories for discharge measurement of rivers attachments at site complete as per the technical specification with two years warranty period	Per No	49107	
	O&M Comprehensive Warranty and AMC Charge			
1.83	Five Years Operation & Maintenance and comprehensive Warranty for Automatic Rain Gauge (ARG) Station with Telemetry along with accessories installed at designated locations under this contract after final acceptance of RTDAS systems. This includes replacement of material & consumable as & when required at bidder cost .The cost of Communication for GSM & GPRS telemetry for data transmission shall be borne by bidder The license fee as applicable for DOT for INSAT transmission shall be	Per No	142857	

	borne by purchaser .			
1.84	Comprehensive AMC for 2 years complete Automatic Rain Gauge (ARG) Station system as per schedule of Rate with telemetry along with all accessories installed at designated locations under this contract after 5 year warranty period This includes the cost of Communication for GSM & GPRS telemetry for data transmission shall be borne by bidder. The license fee as applicable for DOT for INSAT transmission shall be borne by purchaser.	Per No	113393	
1.85	Five Years Operation & Maintenance and comprehensive Warranty for Automatic Water Level Recorder (AWLR) Radar type (15m) with Telemetry along with accessories installed at designated locations under this contract after final acceptance of RTDAS systems. This includes replacement for material & consumable as & when required at bidder cost the cost of Communication for GSM & GPRS telemetry for data transmission shall be borne by bidder. The license fee as applicable for DOT for INSAT transmission shall be borne by purchaser.	Per No	169643	
1.86	Comprehensive AMC for 2 years complete Automatic Water Level Recorder (AWLR) -Radar type (15 m) system as per schedule of Rate with telemetry along with all accessories installed at designated locations under this contract after 5 year warranty period. This includes the cost of Communication for GSM & GPRS telemetry for data transmission shall be borne by bidder. the license fee as applicable for DOT for INSAT transmission shall be borne by purchaser.	Per No	138393	
1.87	Five Years Operation & Maintenance and comprehensive Warranty for Automatic Water level Recorder (AWLR) Radar type (20m) with Telemetry along with accessories installed at designated locations under this contract after final acceptance of RTDAS systems. This includes replacement of material & consumable as & when required at bidder cost .The cost of Communication for GSM & GPRS telemetry for data transmission shall be borne by bidder. The license fee as applicable for DOT for INSAT transmission shall be borne by purchaser .	Per No	178571	
1.88	Comprehensive AMC for 2 years complete Automatic Water Level Recorder (AWLR) -Radar type (20 m) system as per schedule of Rate with telemetry along with all accessories installed at designated locations under this contract after 5 year warrantee period This includes the cost of Communication for GSM & GPRS telemetry for data transmission shall be borne by bidder. the license fee as applicable for DOT for INSAT transmission shall be borne by purchaser.	Per No	142857	
1.89	Five Years Operation & Maintenance and comprehensive Warranty for Automatic Water level	Per No.	191964	

	<p>Recorder (AWLR) Radar type (35m) with Telemetry along with accessories installed at designated locations under this contract after final acceptance of RTDAS systems. This includes replacement of material & consumable as & when required at bidder cost .The cost of Communication for GSM & GPRS telemetry for data transmission shall be borne by bidder. The license fee as applicable for DOT for INSAT transmission shall be borne by purchaser .</p>			
1.90	<p>Comprehensive AMC for 2 years complete Automatic Water Level Recorder (AWLR) -Radar type (35 m) system as per schedule of Rate with telemetry along with all accessories installed at designated locations under this contract after 5 year warranty period. This includes the cost of Communication for GSM & GPRS telemetry for data transmission shall be borne by bidder. the license fee as applicable for DOT for INSAT transmission shall be borne by purchaser.</p>	Per No	156250	
1.91	<p>Five Years Operation & Maintenance and comprehensive Warranty for Automatic Water level Recorder (AWLR) Radar type (70m) with Telemetry along with accessories installed at designated locations under this contract after final acceptance of RTDAS systems. This includes replacement of material & consumable as & when required at bidder cost .The cost of Communication for GSM & GPRS telemetry for data transmission shall be borne by bidder. The license fee as applicable for DOT for INSAT transmission shall be borne by purchaser .</p>	Per No	209821	
1.92	<p>Comprehensive AMC for 2 years complete Automatic Water Level Recorder (AWLR) -Radar type (70 m) system as per schedule of Rate with telemetry along with all accessories installed at designated locations under this contract after 5 year warranty period. This includes the cost of Communication for GSM & GPRS telemetry for data transmission shall be borne by bidder. the license fee as applicable for DOT for INSAT transmission shall be borne by purchaser.</p>	Per No	169643	
1.93	<p>Five Years Operation & Maintenance and comprehensive Warranty for Automatic Water level Recorder (AWLR) Shaft Encoder Type with Telemetry along with accessories installed at designated locations under this contract after final acceptance of RTDAS systems. This includes replacement of material & consumable as & when required at bidder cost .The cost of Communication for GSM & GPRS telemetry for data transmission shall be borne by bidder. The license fee as applicable for DOT for INSAT transmission shall be borne by purchaser .</p>	Per No	196429	

1.94	Comprehensive AMC for 2 years complete Automate Water Level Recorder (AWLR) -Shaft Encoder Type system as per schedule of Rates with telemetry along with all accessories installed at designated locations under this contract after 5 year warranty period This includes the cost of Communication for GSM & GPRS telemetry for data transmission shall be borne by bidder. the license fee as applicable for DOT for INSAT transmission shall be borne by purchaser.	Per No	156250	
1.95	Five Years Operation & Maintenance and comprehensive Warranty for Automatic Water level Recorder (AWLR) Submersible Pressure Transducer with Telemetry along with accessories installed at designated location under this contract after final acceptance of RTDAS system This include replacement of material & consumable as and when required at bidder cost The cost of communication for GSM& GPRS telemetry for data transmission shall be borne by bidder. the license fee as applicable for DOT for INSAT transmissions shall be borne by purchaser	Per No	138393	
1.96	Comprehensive AMC for 2 years complete Automatic Water Level Recorder (AWLR) -Submersible Pressure Transducer System as per schedule of Rates with telemetry along with all accessories installed at designated locations under this contract after 5 year warranty period. This includes the cost of Communication for GSM & GPRS telemetry for data transmission shall be borne by bidder. the license fee as applicable for DOT for INSAT transmission shall be borne by purchaser.	Per No	111607	
1.97	Five Years Operation & Maintenance and comprehensive Warranty for Automatic Water level Recorder (AWLR)Ultrasonic sensors with Telemetry along with accessories, installed at designated locations under this contract after final acceptance of RTDAS system. This include replacement of material & consumables as and when required at bidder cost. The cost of communication for GSM& GPRS telemetry for data transmission shall be borne by bidder. the license fee as applicable for DOT for INSAT transmission shall be borne by purchaser.	Per No	151786	
1.98	Comprehensive AMC for 2 years complete Automatic Water Level Recorder (AWLR) -Ultrasonic sensor system as per schedule of Rates with telemetry along with all accessories, installed at designated locations under this contract after 5 year warranty period. This includes the cost of Communication for GSM & GPRS telemetry for data transmission shall be borne by bidder. The license fee as applicable for DOT for INSAT transmission shall be borne by purchaser.	Per No	125000	
1.99	Five Years Operation & Maintenance and comprehensive Warranty for Gate sensors with	Per No	151786	

	Telemetry along with accessories, installed at designated locations under this contract after final acceptance of RTDAS system. This include replacement of material & consumable as & when required at bidder cost. The cost of commutations for GSM & GPRS telemetry for data transmission shall be borne by bidder. The license fee as applicable for DOT for INSAT transmission shall be borne by purchaser.			
1.100	Comprehensive AMC for 2 years complete Gate sensor system as per schedule of Rates with telemetry along with all accessories, installed at designated locations under this contract after 5 years warranty period. This includes the cost of Communication for GSM & GPRS telemetry for data transmission shall be borne by bidder. The license fee as applicable for DOT for INSAT transmission shall be borne by purchaser.	Per No	125000	
1.101	Five Years Operation & Maintenance and comprehensive Warranty for Automated Weather station (AWS) with Pan Evaporimeter with Telemetry along with accessories, installed at designated locations under this contract after final acceptance of RTDAS system. This include replacement of material & consumable as & when required at bidder cost. The cost of commutations for GSM & GPRS telemetry for data transmission shall be borne by bidder. the license fee as applicable for DOT for INSAT transmission shall be borne by purchaser.	Per No	312500	
1.102	Comprehensive AMC for 2 years complete Automated Weather station (AWS) with Pan Evaporimeter system as per schedule of Rates with telemetry along with all accessories installed at designated locations under this contract after 5 years warranty period. This includes the cost of Communication for GSM & GPRS telemetry for data transmission shall be borne by bidder. The license fee as applicable for DOT for INSAT transmission shall be borne by purchaser.	Per No	245536	
1.103	Comprehensive AMC for 3 years for 1 ADCP along with all accessories, installed at designated locations under this contract after 2 year warranty period. This includes the replacement of batteries as and when required at bidder cost.	Per No	803571	
DATA CENTER EQUIPMENTS				
1.104	Server along with server rack, Monitor and 3 KVA online UPS as per technical specifications	Per No	423729	
1.105	IT Hardware which includes required static IP, Router, Switches, firewall system and A3 Size color printer as per technical specifications	Per No	127119	
1.106	Computer Node (Workstation) along with Monitor and necessary accessories as per technical specifications	Per No	67796.6	
1.107	42" LED Display System as per technical specifications	Per No	63559.3	

1.108	High speed synchronous internet connection (min 8 mbps upload and download) for five years	Per No	892857
1.109	Vsat facility at data center and GSM & GPRS data receiving system with all ancillary equipment as per technical specifications	Per No	401786
1.110	Installation testing & commissioning of Server along with server rack, Monitor and 3 KVA online UPS, Computer Node (Work Station) 42" LED Display, High speed synchronous internet connection, IT Hardware which includes required Static IP, Router, switches, firewall system and A3 size color printer and VSAT facility at data center and GSM & GPRS data receiving system complete as per technical specifications	Per No	44643
1.111	Five Years Operation & Maintenance and comprehensive Warranty for Data Center Equipment at State Data Center (SDC) with IT hardware. This includes replacement of material & consumable as & when required at bidders cost. The cost of Communication for GSM/GPRS VSAT for data transmission shall be borne by bidder. The license fee as applicable for DOT for INSAT transmission shall be borne by purchaser. minimum one Service Engineer shall be placed at State Data Center for Operation of RTDAS system with telemetry for entire warranty period 5 years .	Per No	2053571
1.112	Comprehensive AMC for 2 years complete Data Center Equipment at State Data Center (SDC) system as per schedule of Rates with telemetry along with all accessories installed at State Data Center under this contract after 5 years warranty period. This includes the cost of Communication for GSM & GPRS, VSAT telemetry for data transmission shall be borne by bidder. The license fee as applicable for DOT for INSAT transmission shall be borne by purchaser.	Per No	892857
1.113	3 Day Training of the purchaser's personnel (15 numbers) at the supplier's plant/ and/ or /onsite in assembly, start-up, operation, maintenance and /or repair of the supplied goods. course topics will include sensor calibration, data logger configuration, data downloading, data retrieval, collection, trouble shooting, processing maintenance requirements and procedures for equipment configuration, installation, site testing and commissioning including training kit containing course material in soft and hard copies as per technical specification.	Per No	89286

(G.P. Soni)

Chief Engineer(Bodhi)

Water Resources Department

Bhopal (M.P.)

(S.K. Dandekar)

Engineer-in-Chief

Water Resources Department

Bhopal (M.P.)

Endt.No.../404./ USR /57 Part-IX/ R&C/ BODHI,

Bhopal Dated 06/06/2020

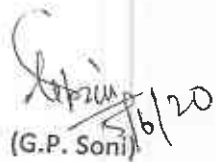
Copy forwarded to :-

1. Personal Secretary to, Hon. Minister, M.P. Water Resources Department, Bhopal.
2. Additional Chief Secretary to Govt. of M.P. NVDA Bhopal.
3. Principal Secretary to Govt. of M.P. Water Resources Department, Bhopal.
4. Engineer in Chief, M.P. Water Resources Department, Bhopal.
5. Engineer in Chief, P.W.D./P.H.E. Bhopal.
6. Member Engineering, N.V.D.A. New Narmada Bhawan, Bhopal.
7. Director, WALMI, Near Kaliasote Dam Site, Bhopal.
8. The Accountant General (Civil), MP, M.P. Nagar, Bhopal.
9. The Chief Technical Examiner Govt of M.P. Jail Road Bhopal.
10. The Secretary to Lokayukt, Bhopal
11. The Secretary, Betwa River Board, Jhansi (U.P.)/Chambal Control Board, Kota (Rajasthan)/Bansagar Control Board, Rewa(M.P.)/Inter State Control Board, Sitabuldi, Nagpur (Maharashtra).
12. The Secretary, Major Project Control Board, Bhopal.
13. All Chief Engineer, M.P. Water Resources Department

For necessary action. The copies of the amendment must be circulated at your level to all field officers under jurisdiction.

14. Superintending Engineer (Monitoring), O/O Engineer in Chief, M.P. Water Resources Department, Bhopal.
- ✓ 15. Web Manager, O/o Engineer-in- Chief, Water Resources Department, Bhopal for uploading in departmental web site.

Encl :- As above


(G.P. Soni)
Chief Engineer, BODHI
Water Resources Department
Bhopal (M.P.)