



Office of the Additional Chief Engineer.

PHED, Region II, Jaipur

Email:-acc.region2jaipur@yahoo.com

No. 8353-56

Date: 30/10/2025

Unit Head,
Rajasthan State Industrial Development
& Investment Corporation Ltd.,
Malviya Nagar Ind. Area,
Jaipur. 302017

Subject : Work of Providing 4.0 MLD water to "Rajasthan Mandapam" at Industrial Land near B-2 Bypass, Tonk Road, Jaipur from Western Feeder of Bisalpur Jaipur water Supply Project.(E.C. 21.72 Crore).

Reference : 1.Your Office letter no. 1128 dated 17.09.2025.
2.SE, PHED, Project City Circle, Jaipur letter no. 1086-87 Dated 29.10.2025.

In reference to the above cited letter regarding allocation of 4 MLDBisalpur water to "Rajasthan Mandapam" at Industrial Land near B-2 Bypass, Tonk Road, Jaipur, it is to inform you that the demand of 4.0 MLD water is to be catered from Western Feeder of Bisalpur Jaipur Water Supply Project.

The job is envisaged to involve the work on deposit, tentatively amounting to Rs. 21.72 Crores; with major components; such as laying of 250 mm DI K7 pipeline along Sawai-madhopur Railway track from Sanganer Puliya to Dravyawati Crossing and to Rajasthan Mandapam Site, providing and installation of valves, flowmeters, road cut, all other necessary ancillary works, and Share cost of Bisalpur System. It is also submitted that the permission of railway crossing and Dravyawati river crossing will be on your part.

You may forward your consent upon the proposed estimate (enclosed), so that detailed project report and final estimate may be prepared and the case shall be submitted for administrative approval from competent authority. Final proposal is subject to approval from competent level.

Note: Enclosed Estimate is tentative and subject to have minor changes after detailed Engineering of works.

Enclosure: 1. As Above.

(Shubhanshu Dixit)
Additional Chief Engineer,
PHED Region II,
Jaipur

Date: 30/10/2025

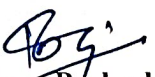
No. 8353-56

Copy to following for information and necessary action:

1. CE (U&NRW), PHED, Jaipur. Email: rj_cehq@nic.in
2. Superintending Engineer, PHED, Project Circle City, Jaipur. Email: sepcjpr@gmail.com
3. Executive Engineer, PHED, Project Division-I, Jaipur. E-mail: eebsl-div1-rj@nic.in

(Shubhanshu Dixit)
Additional Chief Engineer,
PHED Region II,
Jaipur

GENERAL ABSTRACT OF COST		
Name of Work:-Work of Providing 4.0 MLD water to "Rajasthan Mandapam" at Industrial Land near B-2 Bypass, Tonk Road, Jaipur from Western Feeder of Bisalpur Jaipur water Supply Project.		
S.No.	Description of work	Amount in Rs.
1	Work of Providing 4.0 MLD water to "Rajasthan Mandapam" at Industrial Land near B-2 Bypass, Tonk Road, Jaipur from Western Feeder of Bisalpur Jaipur water Supply Project.	₹ 1,09,07,677.00
2	Provision of Road Cut Charges	₹ 30,08,200.00
Total		₹ 1,39,15,877.00
Add Contingency Charges @5%		₹ 6,95,793.85
Sub Total		₹ 1,46,11,670.85
Add Supervision/ Prorata Charges @ 17.5%		₹ 25,57,042.40
Total		₹ 1,71,68,713.25
Share Cost of 4 MLD Water		₹ 20,00,00,000.00
Grand Total		₹ 21,71,68,713.25
Say Rs. In Crores		21.72


 (Nishant Prakash)
 Assistant Engineer
 PHED, Project Sub. Div. II, Jaipur


 (Dinesh Kumar Sharma)
 Executive Engineer
 PHED, Project Div. I, Jaipur


 (Sudhir Verma)
 Superintending Engineer
 PHED Project Circle Jaipur City
 Jaipur


 (Shubhanshu Dixit)
 Additional Chief Engineer
 PHED, Region II, Jaipur

Estimate of BSR Items						
Name of Work: Work of Providing 4.0 MLD water to "Rajasthan Mandapam" at Industrial Land near B-2 Bypass, Tonk Road, Jaipur from Western Feeder of Bisalpur Jaipur water Supply Project.						
Based On PWD BSR 2022, RUIDP SOR 2023 and PHED Revised BSR 2023						
Part A						
S.No.	BSR Code	Item Description	Unit	Rate	Qty	Amount
1	1.1	Providing, lowering, laying in trenches, aligning, fixing in position and jointing Ductile Iron (DI) ISI marked K-7 grade S&S pipes as per IS:8329-2000 (amended up to date), with internal cement mortar lining suitable for potable water with rubber ring (EPDM) joints as per IS: 5382-1985 including all taxes (Central and local), transportation and freight charges, inspection charges, loading/ unloading charges, including cost of labour and material, specials (Tee, bend etc.) satisfactory hydraulic testing, disinfection, commissioning etc. complete as per technical specifications and direction of Engineer-in-charge. (excluding earth work) Note : Providing and fixing of all requisite specials as per drawing, design and layout are inclusive in RM measurement of the item and shall not be paid separately.				
	1.1.5	250 mm	RMT	3307	1400.00	4629800
2	Revised PHED BSR 2023 1.6	Manufacturing, supplying, lowering, laying and jointing in position to correct line spirally welded SAW/Fabricated MS Pipe having bevelled end plates / coils, confirming to IS 3589- 2001 or its latest revision/ amendments, for following thickness and inside diameter, including all taxes (Central and local), transportation and freight charges, inspection charges, loading/ unloading charges, including cost of labour and material, specials (Tee, bend etc.), field joints, satisfactory hydraulic testing, disinfection, commissioning etc. complete as per technical specifications and direction of Engineer-in-charge; (excluding earthwork, internal lining and outer coating). Note : Providing and fixing of all requisite specials as per drawing, design and layout are inclusive in RM measurement of the item and shall not be paid separately.				
	1.6.3	Outer dia of pipe 323.9 mm and thickness				
	1.6.3.4	7.1 mm	RMT	6496.00	105.00	682080.00
3.1	Revised PHED BSR 2023 4.3	Dismantling of flexible pavement for pipe line and chambers by mechanical means using pneumatic tools, breaking, to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials up to a lead of 1000 meters. Measurement for dismantled trench to be made as per standard trench width specified in tender document and no extra payment shall be made for trench width more than specified, re-handling of material/earth to complete the tasks per technical specification and scope of work.				
	4.3.1	Bituminous courses	Cum	416.00	720.00	299520.00
3.2	4.3.2	Granular courses	Cum	296.00	720.00	213120.00
4	Revised PHED BSR 2023 4.1	Earth work in excavation by mechanical means (Hydraulic Excavator)/ manual means in trenches of required width and gradient for laying and jointing of pipe line including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 Mtr. including taking out the excavated soil, and then returning the soil as required in layers not exceeding 20cm in depth including consolidating each deposited layer by ramming, watering etc. and disposal of surplus excavated soil as directed within a lead of 50 Mtr. including required all safety provisions etc.: All kinds of soil	Cum	200.00	3600.00	720000
	4.2	Add extra for trenches for every additional lift over item no. 4.1				
	4.2.1	Above 1.5 mtr and upto 3.0 mtr	Cum	20.00	50.00	1000
5	Revised PHED BSR 2023 1.15	Providing and fixing of flanged/ plain ended MS Specials made from MS sheet strips of relevant IS specification of approved thickness by welding, lowering, laying, aligning, fixing in position at all level/ depths in trenches complete including all taxes, material, labour, inside lining, outside coating, testing and commissioning along with pipe line as per technical specifications and direction of Engineer-in-charge.				
	1.15.1	MS pipe specials up to 600mm dia (with minimum 5mm thickness sheet)	Kg	126.00	1000.00	126000.00
6	Revised PHED BSR 2023 6.18	Providing, lowering, aligning, fixing in position and jointing MS dismantling joint (Fabricated Steel) as per IS specifications complete of the following sizes including all jointing material, cost of all labour, testing and commissioning and as per technical specifications and direction of Engineer In-Charge. Class PN 1.0/1.6				
	6.18.6	250 mm dia.	Each	15313	6.00	91878.00

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7	Revised PHED BSR 2023 6.9	Providing, lowering, aligning, fixing in position in pipe line, DI D/F resilient seated (soft seated) short body pattern type double eccentric Butterfly valves of approved make of following class & dia complete confirming to BS EN 593/ BS 5155/ IS 13095/1991 amended up to date and of following specifications: Body, disc and end cover of Ductile cast iron of grade GGG40/GGG50 as per DIN 1693 or GR SG-400/12 as per IS 1865 or equivalent grade as per IS :3896-part2-1985 and subsequent revisions, Face to face dimensions as per DIN 3202 F4/ IS 13095 Drilled as per IS:1538. Electrostatic Epoxy Powder(EP-P) / Fusion Bonded Epoxy (Non-Toxic & suitable for drinking water) coated with minimum thickness of 250 micron applied on both body and disc inside and outside. Disc seal ring of EPDM/ Neoprene (food grade quality) and disc seal retaining ring of SS/CS. Shaft of SSAISI- 410/316 & shaft bearings bronze/ PTET or Teflon with EPDM/NBR "O "ring seal, Nut-Bolt confirming to IS:1363 and IS: 1367 (Galvanised steel) Insertion rubber of black EPDM 6mm thick. Suitable support structure as per directions of EIC including jointing & jointing material, labour, testing and commissioning along with pipeline as per Technical Specification & as per direction of Engineer-in-charge. Note: Rates are exclusive of tail piece/ dismantling joints and earth work				
	6.9.1	Manually Operated Butterfly Valve PN-1.0				
	6.9.1.4	250 mm dia (with Gear Operated)	Each	66241.00	4.00	264964
8.1	6.8	Providing, lowering, aligning, fixing in position in pipe line at work site, DI D/F Resilient seated (soft seated) Sluice Valves (Gate Valves) , Vacuum tight(bubble tight), straight and pocket less body passage of approved make of following class & dia complete confirming to BS-EN-1171/ AWWA C-509 and of following specifications: Body & bonnet of Ductile cast iron of grade GGG40/GGG50 as per DIN 1693 or GR SG-400/12 as per IS 1865 or equivalent grade as per IS :3896-part2-1985 and subsequent revisions, Wedge of same material as body & shall vulcanised rubber lined with EPDM (food grade quality) and seals of NBR Face to face dimensions as per BS 5163-89/ IS 14846/2000 (amended up to date) /Din 3202 F4, Stem/ spindle of SS AISI 316/410 Electrostatic epoxy powder(EP-P)/ Fusion bond epoxy (Non-Toxic, suitable for drinking water) coated with minimum thickness of 250 microns inside and outside, Drilled as per IS 1538. Nut-Bolt confirming to IS:1363 and IS: 1367 (Galvanised steel) Insertion rubber of black EPDM 6mm thick. Suitable support structure as per directions of EIC, Sluice valves including all jointing & jointing material, labour, testing and commissioning along with pipe line as per Technical Specifications and as per direction of Engineer-in-charge. Note: Rates are exclusive of tail piece/ dismantling joints and earth work.				
	6.8.1	Manually Operated Resilient Seated Sluice Valves of Class PN 1.6				
	6.8.1.6	250 mm dia	Each	48781.00	1.00	48781
	6.8.2	Motorized Sluice Valves with Electric Actuator and integral starter of Class PN 1.0				
8.2	6.8.2.6	250 mm dia	Each	177836.00	1.00	177836
9	6.15	Providing, lowering, aligning & fixing in position DI D/F Plunger Type Flow Control Valve of approved make of following Pressure rating & dia complete and of following specifications: Body- Ductile cast iron of grade GGG40/GGG50 as per DIN 1693 or EN-JS 1030, Plunger/ Piston - Stainless steel AISI- 304/ Gr 1.4301, Piston Guides- Bronze Welded Overlay / SS Shaft/Crank/Spindle- Stainless steel AISI- 410/ Gr 1.4021 Body Seat Ring- Stainless steel AISI- 316/304/ Bronze IS:318- LTB2 ,Seal (O- ring / Quad ring)- EPDM/ NBR, Bearing Bush - Bronze IS:318- LTB2,Slotted cylinder / Strainer / Diffuser- AISI- 420/ 304,Nut- Bolts - SS, Face to Face- as per ANSI B 16.1/ EN 558-1 and Flange ends should be as per ANSI B-16.5, Class 150 and Class 300/ EN-1092-2. Insertion rubber of black EPDM 6mm thick ,Electrostatic Epoxy Powder(EP-P) / Fusion Bonded Epoxy (Non-Toxic & suitable for drinking water) coated with minimum thickness of 250 micron applied both inside and outside . Suitable support structure as per directions of EIC including jointing & jointing material, labour, testing and commissioning as per Technical Specification & as per direction of Engineer-In- Charge. Note: Rates are exclusive of tail piece/ dismantling joints and earth work.				
	6.15.1	Plunger Type Flow Control Valve				
	6.15.1.6	250mm dia	Each	645671.00	1.00	645671

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10	11.1	SITC of D/F Full bore type Electromagnetic Flow Meter of approved make of following dia and specifications complete: Media : Water (Raw/ Chlorinated) , Pressure : up to 1.5MPa, Process temp: - 50 deg C, Flow/Meter Tube : SS 304, Electrode : SS AISI 316L / Hastelloy C276/ Tantalum, Lining Material : Hard Rubber/ Neoprene / Poly-urethane (PU) , Flange : SS / CS, Flange Standard & Rating : ANSI 150, Coil housing : SS AISI 304/ Carbon Steel/ Die Cast Aluminium, with anticorrosive paint & provide completely sealed (leak proof) construction as per requirement of IEC 60529, Accuracy : $\pm 0.5\%$ M.V.- velocity 0.3 to 10 m/s, Transmitter/ signal convertor Enclosure : Die Cast Aluminium, Power Supply : 80-240 V AC - 50Hz, Output 1 : 4-20 mA, Output 2: Pulse, Communication Output : RS 485/ Heart, Display Type : LCD/ LED Display, Cable Entry : M20 X 1.5, Provision of RAM/PROM to store calibration and configuration parameters and totalizer value during power failure, Protection category- IP 68 for sensor (flow tube) and IP 67 for transmitter/ convertor, including Surge Arrester, if required, and all materials required for making connection etc. complete in all respect as per technical specification and direction of Engineer In-Charge. Note: Rates are exclusive of tail piece / dismantling joints and earth work.				
	11.1.6	EFM 200 mm	Each	141972.00	1.00	141972
11	46.1	Design, Manufacture, Supply, Installation, Testing and Commissioning of Indoor type PLC Panel of size approx. 800 mm X 500 mm X 2000mm (LBH) , Fabricated out of min. 2 mm thick CRCA sheet complete with latest configuration, necessary programming software for PLC & SCADA and comprising of all accessories not limited to the following: DI No. 30, DO No. 26, AI No. 6, AO No. 2, MCB 16A DP No. 2, MCB 6A DP No. 6, SMPS 100-240VAC/ 4.5A / 24 VDC No. 1, Selector Switch (Auto/Manual) & Local / Remote No. 2, Control Relays Lot 1, Annunciator with 24 Windows NO to NC Type Microprocessor Based, Window Size 75*42mm, 110VAC, with Electronic Hooter No. 1 Control Transformer 200VA No. 1, Emergency STOP Push Button No. 1, Panel Cooling Fan & Filter No. 2, Panel Light with Door Switch, 7W No. 1, Control Indication Lamp for 24VDC, 220VAC No. 3, Push Button No. 3, Power Wiring+Control Wiring + Control TB/ Fuse 2A,TB etc Lot 1, Panel Hardware, lugs, terminations, ferrules, name plate Etc. Lot 1 UTILITY SOCKET 16A, 3 PIN No. 2, HMI Display 10 Inch, Colour No. 1, Isolators Dual Output, 24VDC Lot 1	Lot	614460.00	1.00	614460
12	17.87	Supply and Pushing of MS casing pipe of specified thickness by trenchless method adopting micro-tunnelling or any suitable mechanical technology or technology approved by Railway below ground at all depth under running traffic condition as per railway standard including carrying out survey work at the job site for determining underground cable trenches like telephone, cable, water & sanitary lines and resistivity test for finding the soil strata using necessary equipment's for completion of works, mobilizing of machineries and specialized crew at the job site complete in all respect, including excavation of driven pit and exit pit (upto 3 metre depth) with proper protection at three sites with shoring sheets and ISMB's. Providing MS cutting edges for front shield and Constructing thrust bed at designated level. Necessary de-watering and providing concrete foundation at the base of the driven pit, PVC/Rubber saddle as per the requirement of Railway Authority, crane for handling of pipe and any other machinery, tools, and tackles required, construction of temporary works as per requirement and as per approved by railway authorities, specification and the direction of the Engineer. (Protective coating/ lining if done that will be paid extra) Note- 1. Manual Pipe jacking is not permitted for workmen safety reasons. 2. Length of pipe shall be measured in between the outer wall of two manholes / Inspection chambers. Pipe in the manhole/inspection chamber's wall shall deemed to be included in the item of manhole/inspection chamber shall not be payable. In all type of soils				
	17.87.1.1	600 mm dia 12 mm thick casing pipe	RMT	42200.00	40.00	1688000
13	Revised PHED BSR 2023 1.12	Providing and applying Solvent free, two pack liquid epoxy lining to internal surface of M.S. Pipe as per BS 6920:2000 and AWWA C210 standard including preparation of internal surface of pipe by cleaning and abrasive blasting including field joints coating at site complete as per technical specification and direction of Engineer in In charge. Liquid Epoxy shall be NSF/WARS approved for drinking water and minimum thickness of lining shall be 406 microns.	Sqm	409.00	25.00	10225.00
14	PWD BSR 2022 3.1.7	Providing and laying in position cement concrete including curing, compaction etc. complete in specified grade excluding the cost of centering and shuttering - All work up to plinth level. 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40mm nominal size).	Cum	2956.00	5.00	14780.00

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15	PWD BSR 2022 4 1	Providing and laying in position specified grade of cement concrete for all RCC structural elements upto plinth level including curing, compaction, finishing with rendering in cement sand mortar 1:3 (1 cement: 3 coarse sand) and making good the joints and cost of plasterers (if required) excluding the cost of centering, shuttering and reinforcement. M20 grade Nominal Mix / Design Mix	Cum	4934.00	10.00	49340.00
16	PWD BSR 2022 4 9	Centering and Shuttering with plywood or steel sheets including strutting, propping bracing both ways and removal of formwork for foundation, footings, strap beam, raft, bases of columns etc.	Sqm	157.00	50.00	7850.00
17	PWD BSR 2022 4 13	Providing and fabricating reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding (including cost of binding wire) all complete up to floor five level. (Original producers' who manufacture billet directly from iron ores and roll the billets to produce steel conforming to IS:1786) Thermo-mechanically Treated bars (Conforming of relevant IS code)	Kg	77.00	100.00	7700.00
18	Revised PHED BSR 2023 9 1	Construction of RCC Sluice valve chamber for different type of valves including earthwork excavation, 100mm PCC M15 as levelling course, RCC M25 grade for base slab, side wall & cover slab, including cost of steel reinforcement, form work, Pre-cast slabs, plastic encapsulated CI/MS Foot Rest, MS flats for the support of pre-cast, proper curing of concrete work complete in all respect as per specifications and standard drawings and as per direction of Engineer-in-Charge				
	9.1.1	For Class AA Loading	Each	52300.00	8.00	418400.00
	9.1.1.3	Sluice valve chamber of size 1.26m x 1.185m x 1.88m for pipe size from 200-to-300mm				
19	PWD BSR 2020 G 4.1	Carriage of Materials by mechanical transport including loading, unloading and stacking Earth, Sand, lime, Morrum or sludge Upto 10 Km.	Cum	165	120	19800.00
20	PWD Electric BSR 2022 11.3	Providing & Laying P.V.C. / XLPE insulated & P.V.C. sheathed Un-armoured Copper cable conforming to IS:1554 P-1 / IS:7098 P-1 of 1.1 KV with electrolytic grade Copper made of copper rods conforming to IS 613-1964, of purity >99.7%, Inner / outer sheath conforming to IS:5831 in existing RCC / Hume / Stoneware / PVC pipe/ open duct/cable trench / Cable tray (with cable tie) including testing etc. as required of following size. OEM must have it's own in house NABL accredited Laboratory for testing procedure as per IS:10810.				
	11.3.5.1	10 Sq. mm (2 Core)	RMT	230	150	34500.00
21	11.2	Providing & Laying P.V.C. / XLPE insulated & P.V.C. sheathed Armoured Aluminium cable conforming to IS:1554 P-1 / IS:7098 P-1 of 1.1 KV with H4- Grade electrolytic aluminium conductor conforming to IS 8130 of purity >99.6%, round / flat strip armouring of cables, Inner / outer sheath conforming to IS:5831 in existing RCC / Hume / Stoneware / PVC pipe/ open duct/cable trench / Cable tray (with cable tie) including testing etc. as required of following size. OEM must have it's own in house NABL accredited Laboratory for testing procedure as per IS:10810. For additional technical parameters of product / work refer Annexure 'A' attached with this BSR				
	11.2.4	16.0 Sq. mm	Mtr	232	400	92800.00
	11.2.4.3	4 core				
22	E111200	Providing and laying XLPE/PVC insulated & PVC sheathed Un-armoured control cables of 1.1 KV grade with copper conductor as per IS 1255 including excavation of 30 Cm x 75 Cm size trench 25 Cm thick under layer of sand and lind class bricks covering	Mtr	440	150	66000.00
	E111208	12C x 2.5 sq. mm				
23	42.23	Providing, installation, testing and commissioning of ONLINE UPS SYSTEM, Single Phase 230 V, 50 Hz with 2 hour backup SMF battery bank as per specification	Each	49926	1	49926.00
	42.23.1	1 KVA				
Total Part A						
Part B						
1	NNJ Circular dated 06.10.2022	Provision of Road Cut Charges Paver Road Service above 15 cm to 50 cm	Rmt	4628	650	3008200
Total Part B						₹ 30,08,200.00
Part C						
1		Share Cost of Baisalpur Water	Per MLD	50000000	4	200000000
Total Part C						₹ 20,00,00,000.00
Total						₹ 21,39,15,877.00

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7249-50
19/09/2025

SE, Jaipur South

12/09/2025

ad effect

Reg. A.D./E-mail

Additional Chief Engineer,
Public Health Engineering Department,
Jaipur Region-II, Gandhi Nagar, Jaipur

19/9/20

19/9/20

ACE
E.E.T.A.
E.E.(C.M.I.)
E.E.(N.R.W.)
A.A.O.
AD.A.O.

No.: U (14)/2025-26/ -1128

Date: 17/9/2025

Sub:- Allocation of 4.0 mld. water for Industrial land near B-2 Bypass, Tonk Road Jaipur.

Dear Sir,

The Government of Rajasthan has signed an MOU on 10.09.2025 with NBCC (India) Limited for Development of "Rajasthan Mandapam" and other allied projects like GCC/IT Towers, 4 & 5 Star Hotels, Commercial & Residential Blocks etc. at Industrial land near B-2 Bypass, Tonk Road, Jaipur. The construction work of Unity Mall (PM-Ekta Mall) has been already in progress on approx. 20700 sqm. land in the premises of said Industrial land.

The total expected water demand for this area approx. 4.0 mld. To meet the water demand of this area, you are requested to allocate 4.0 mld. from Jaipur Bisalpur water supply project and provide the sharing cost of Jaipur Bisalpur project and cost for laying of water transmission line form the nearest pumping station.

So, considering above mentioned prestigious projects of the State, you are requested to provide the sharing cost as early as possible.

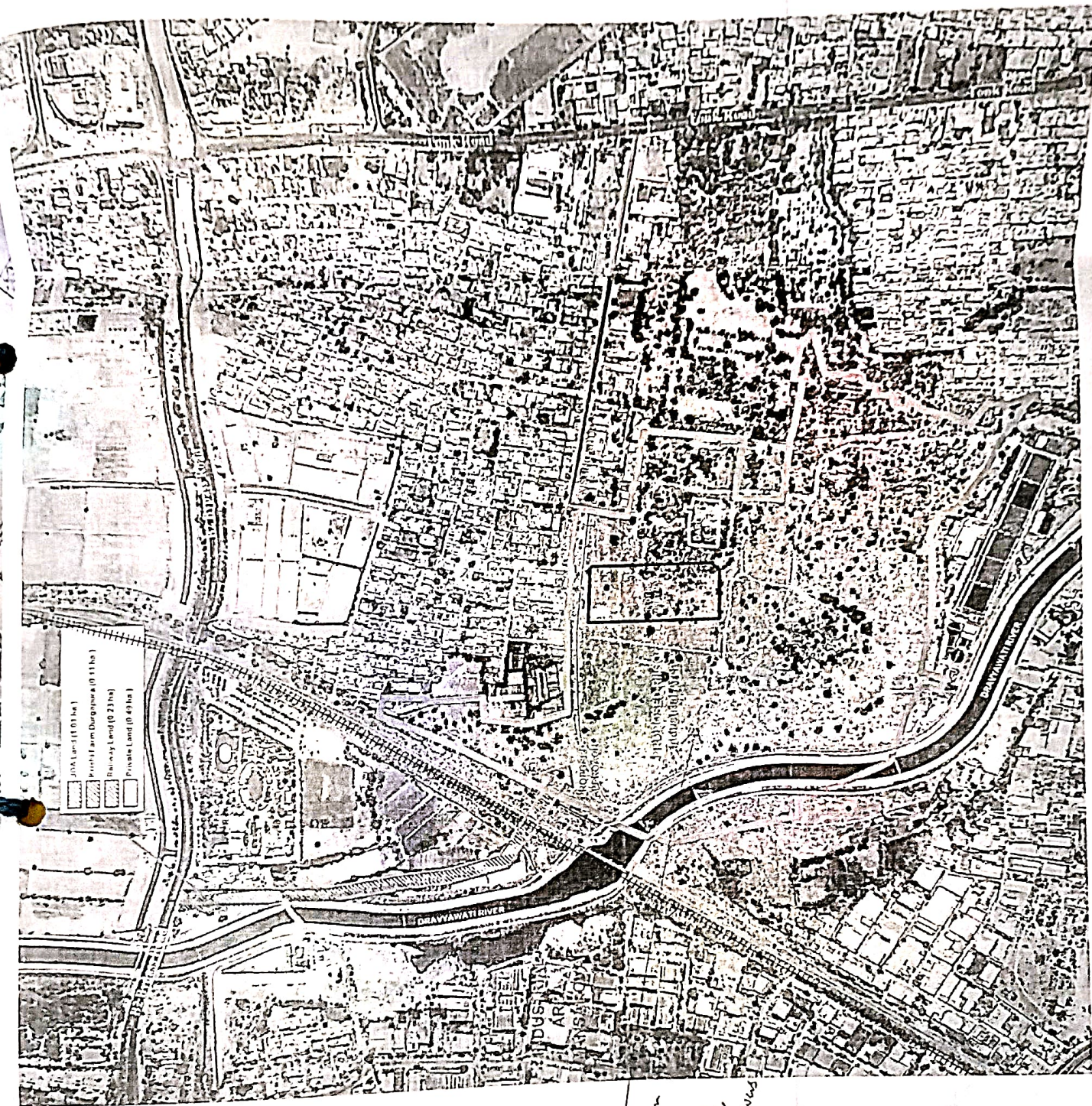
Thanking You,

Yours Faithfully,

(Akhil Kumar Agrawal)
Unit Head

Encl.:- Google map showing the location of an area.

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94140 41379



Proposed
Land
for Rajasthan
Mandham
Unity mall,
GCC/IT Towns
etc.