Village Action Plan (VAP)

To identify all water related activities which helps in improving 'ease of living' of village community.
(To be prepared by GP and/ or its sub-committee, i.e. VWSC/ Paani Samiti/ User Group etc. and to be approved in *Gram Sabha* before submitting to DWSM. ISA is to provide handhold support)

1. Date of preparation:_____ 24-08-2021_____

Date of approval in *Gram Sabha*:_____26-08-2021_____

Date submitted to DWSM:_____

2. Village name: _____**Maraina**___

GP name: _____Maraina_____

Block name: _____Fatehabad_____

District name: _____Agra_____

State name: _____Uttar Pradesh_____

Village census code: _____125103_____
(No. of habitations and habitation names, if applicable) No_1 _Maraina

I. GP Resolution

3. Aspiration of village community: FHTC to 391_number of rural households by year _2022 __ with water supply in adequate quantity of _55__ lpcd of prescribed quality* on a regular basis, i.e. __08___ no. of hours every day along with water supply to _03_ no. of cattle troughs and _ 03_ no. of washing/ bathing blocks.

We, the village community, take the responsibility to own, manage, operate and maintain our in-village water supply
Infrastructure. We will respect and protect our water bodies and will not contaminate them. We will manage our Greywater and save our fresh water.
It is resolved to pay 10 % of capital cost, calculated share of O&M cost and contribute in managing water supply system.
* Water quality certificate to be issued by PHED/ RWS Dept.

II. Gram Panchayat and/ or its sub-committee, i.e VWSC/ Paani Samiti/ User Group etc. details

4. Which committee will lead the planning, implementation, management, O&M of water supply scheme in village? (GP and/ or its sub-committee): _____Sub Committee_____

What is the committee called: _____**V**illage **W**ater & **S**anitation **C**ommittee___Maraina___(**VWSC**)____

Chairperson name: _____Mr. Avanish Kumar_____

Gender: _____Male_____

Age: _____25_Years_____

5.

Member Name	Gender	Age
"as Enclosed"		

Details of Skilled Manpower for PWS/ Training

S.No.	Name	Trade	Contact No.
1	Arun	Electrician	7060654231
2	Neeraj	Carpenter	7248182688
3	Prashant	Pump Operator	8954544354
4	Narendra Kumar	Mason	9528803189
5	Avadhesh	Plumber	9027660601

III. General details

6.

As per 2011 Census		As per current Panchayat / Anganwari record (2021)	
Population	2686	**Population**	2981
No. of HHs	360	**No. of HHs**	391
No. of Women	1261	**No. of Women**	1400
No. of Men	1425	**No. of Men**	1581
No. of Children	575	**No. of Children**	632
No. of FHTCs	0	**No. of FHTCs**	0

	SC	ST	Gen	Total
Maraina	176	0	2805	2981

7. Population projection: (Present Requirement = 163.95 KLD)

Intermediate stage -20 years from date (18% increase over present population): 193.46 Kilo Litre/ Day (KLD)

Ultimate stage - 30 years from date (32% increase over present population): 216.41 Kilo Litre/ Day (KLD)

8. Current cattle population (Animal husbandry records):

	Cow / Cattle	Buffalo	Sheep	Goat	Pig	G. Total
Nos.	1080	1379	0	221	0	2680
Water Requirement (LPCD)	65	65	10	10	10	
Total water Requirement	70200	89635	0	2210	0	162.04

(LPCD – Litre per capita per day)

9. Agricultural cropping pattern:-

Major Crops	Kharif	Rabi
Sugarcane	Paddy (Dhaan)	Wheat
Paddy (Dhaan)	Maize (Makka)	Mustard
Maize (Makka)	Cotton (Kapaas)	Gram (Chana)
Cotton (Kapaas)	Bajara	Arhar
Wheat	Jwaar	Moong
Mustard	Seasonal Vegetables	Masoor

Bajara /Jwaar		Urad
Gram (Chana)		
Arhar / Moong / Masoor / Urad		
Others		Seasonal Vegetables

10. Average district rainfall (in mm): _____800 mm (Annual) _____

11. Topography (plain, slope, etc.): _____Plain_____

IV. Situation Analysis

12. Is resource mapping done? (Y/N)
(attach the map with VAP) _____Yes, Enclosed_____

13. Is social mapping done? (Y/N)
(attach the map with VAP) _____ Yes, Enclosed _____

14. Water Bodies.

S.No.	Public Institutions Name	Is FHTC available ? (Y/N)	Is Rain Water Harvesting Structure available ? (Y/N)	Soak Pits available ? (Y/N)
1	**School**	No	Yes	Yes
2	**Anganwari**	No	No	No
3	**Health Centre**	No	No	No
4	**GP Building**	No	No	No
5	**Other**	No	No	No

Total daily requirement of water

15. Present requirement of water ___2981*55 LPCD = 163.95 KLD

Present requirement of water for cattle: 162.04 KLPD

No. of cattle troughs required: 05

Requirement of water for intermediate stage –): 193.46 KLPD (20 Years)

Requirement of water for ultimate stage - 216.41 KLD (30 Years)

History of water supply

16. History of water supply/ availability in the village, drought/ scarcity/ cyclone/ flood or any other natural calamity pattern, general trend of water availability: --NO

17. Any history of emergency arrangements like water supply through tanks, trains, etc.: NO
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18. History of part work related to water supply, source strengthening, NO
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19. History of water-borne diseases: --NO

Water quality

20. Dates identified for WQ surveillance with community using FTKs/ vials: ___5th & 20th of every month__

21. Dates identified for sanitary inspection: _____10th of every month_____

22. Water quality of existing/ proposed drinking water source(s) used in the water supply scheme :source name (Location): Maraina .

Parameter	Method	Result
Turbidity	Visual Comparison	1.5
pH	Strip Colour Comparison	7.2
Total Hardness	Titrimetric Method	192
Total Alkalinity	Titrimetric Method	192
Chloride	Titrimetric Method	202
Ammonia	Visual Colour Comparison	-
Phosphate	Visual Colour Comparison	-
Residual Chlorine	Visual Colour Comparison	0.70
Iron	Visual Colour Comparison	0.2
Nitrate	Visual Colour Comparison	24
Flouride	Visual Colour Comparison	0.68

Washing/ bathing blocks

23. Some poor areas in the village might not have sufficient space to have a washing space and/ or a tap connection. Number of such areas identified to have a washing/ bathing block: ___05_____

Location Name	No. of Households	Population
Maraina	195	1524

Source Sustainability

24. In case of groundwater source, is there a bore well recharge structure? (Y/N)

No

25. List of existing water bodies in the village that need to be rejuvenated/ maintained:

- Water tank
- Renovation of existing water pond in the village.

Greywater management

Grey water management can be achieved with the help of disposal systems like Soak pit, Drain /Gutter etc.

26. Greywater generated (65% of water supply): 270.51 KLD
No. of HHs with individual soak pits: _____
No. of HHs that need individual soak pits: ___98
No. of community soak pits needed:: ____22___
Is there a need for waste stabilization pond? (Y/N): __Yes__
If Yes, location identified for it: _Maraina __
If No, what other greywater management measures to be adopted?

V. Water Supply Scheme

27. FHTCs will be provided under which of the following category:

- Retrofitting of ongoing schemes taken up under erstwhile NRDWP for the last mile connectivity
- Retrofitting of completed RWS to make it JJM compliant.
- SVS in villages having adequate groundwater/ spring water/ local or surface water source of prescribed quality.
- SVS in villages having adequate groundwater that needs treatment.
- MVS with water grids/ regional water supply schemes.
- Mini solar power based PWS in isolated/ tribal hamlets.

28. Water source identified: _____
Proposed water supply scheme based on techno-economic and socio-economic appraisal: _____
Land identified for the scheme: _____
Date by when land will be handed over to PHED/ RWS Dept.: _____
cost of scheme:_____

GoI share:_____
State share: _____
Community share: _____
Individual household contribution: _____
Annual O&M charges: _____Individual household monthly water tariff/ user charge:_____
If any remote habitations, PWS identified:_____
(After approval of DPR the Point No. 28 will be filled)

VI. Convergence

(The following table indicates the possible schemes under which activity/ fund convergence is possible. Village community is to send proposals to the identified schemes as per village requirements)

Name of the Scheme	Central / State Government	Possible activities that can be taken up	Funds Proposed
Fourteenth Finance Commission	GP	Greywater management, drainage systems, etc.200 mitr. ., Rain water Harvesting in GP Institutions	120000.00 570000.00
Swachh Bharat Mission - Grameen(SBM-G)	Department of Drinking Water and Sanitation, M/O Jal Shakti	Greywater management – soak pits (individual/ community), waste stabilization ponds, etc.	1200000.00 125000.00
MGNREGS	M/O Rural Development	All water conservation activities under Natural Resource Management (NRM) component	22500.00 600000.00
Integrated Watershed Management Programme	D/O Land Resources	Watershed Management/ RWH/ Artificial Recharge, creation/ Augmentation of water bodies, etc.	
Repair, Renovation and Restoration of water bodies	D/O Water Resources, River Development and Ganga RejuvenationLand Resources	Restoration of Large Water Bodies	
Rastriya Krishi Vikas Yojana (RKVY)	M/O Agriculture, Cooperation and farmers welfare	Watershed related works	
Pradhan Mantri Krishi Sinchaee Yojana (PMKSY)	M/O Agriculture, Cooperation and farmers welfare	Provision of micro irrigation for various water intensive crops to reduce drawl of water from aquifers.	
Compensatory Afforestation fund management and planning authority.	M/O Environment, Forest and Climate change.	Afforestation, regeneration of forest ecosystem, watershed development, etc.	
Pradhan Mantri Kaushal Vikas Yojana (PMKVY)	M/O Skill Development & Entrepreneurship	Skill Development, training etc. for human resources required for RWS schemes.	
Samagra Shiksha	M/O HRD	Provision of drinking water supply in schools.	
Aspirational districts programme	NITI Aayog	Water conservation activities taken up under discretionary funds with district collector	
District Mineral Development Funds	State	Water conservation activities on large scale	
MPLAD	Ministry of Statistics and Programme Implementation (MoSPI)	In- Village Infrastructure	
MLALAD	State	In- Village Infrastructure	
Grants under article 275 (1) of the constitution/ Tribal sub scheme	Ministry of Tribal Affairs and State	In- Village Infrastructure	