**SECTOR WISE SLIP Template: water supply**

1. **Assess the Service Level Gap**

* What kind of baseline information is available for water supply system of the city? Detail out the data, information, plans, reports etc related to sector. Is zone wise information available? (75 words)
* izfro’kZ “kgjh fodkl ea=ky; }kjk lfoZl yscy csapekfdZax ds ek/;e ls jktukanxkao ’kgj ds fu/kkZfjr izi= ,oa ekin.Mksa ds vk/kkj ij okVj lIykbZ ls lacaf/kr MkVk DysDV fd;s x;sA
* Have you collected census 2011 data? Are you aware of baseline survey data of MoUD? Have you correlated data from these and other sources? (75 words)
* tux.kuk 2011 ds vksdM+ks dks ,df=r fd;k x;k ,oa mls vk/kkj eku dj “kgjh fodkl ea=ky; ds xkbZM ykbZu vuqlkj lfoZl yscy csapekfdZax ds ek/;e ls MkVk DysDV fd;k x;kAPLEASE MENTION IF THE ULB IS AWARE OF THE BASELINE SURVEY OF MoUD

Ans -

Base lineMOUDBENCHMARK is already mention in Table 1.1 in which survey of present status of ULB is also mention.

* What are existing service levels for water supply in the city? What is the coverage of water supply Connections? What is per capita supply of water? How much is the extent of metering? How much is non-revenue water? Provide information in table 1.1

Table 1.1 Status of Water Supply service levels

|  |  |  |  |
| --- | --- | --- | --- |
| Sr. No. | Indicators | Present status | MOUD Benchmark |
| 1 | Coverage of water supply connections | 53.3% | 100% |
| 2 | Per capita supply of water | 130.12 LPCD | 135 LPCD |
| 3 | Extent of metering of water connections | 0% | 100% |
| 4 | Extent of non-revenue water | 29.33% | 20% |
| 5 | Quality of water supplied | 100% | 100% |
| 6 | Cost recovery in water supply services | 60.7% | 100% |
| 7 | Efficiency in collection of water supply related charges | 56.33% | 100% |

* What is the gap in these service levels with regard to benchmarks prescribed by MoUD?(75 words)

|  |  |  |  |
| --- | --- | --- | --- |
| Sr. No. | Indicators | Present status | gap in these service levels with regard to benchmarks prescribed by MoUD |
| 1 | Coverage of water supply connections | 53.3% | 46.7% |
| 2 | Per capita supply of water | 130.12 LPCD | 4.88 lpcd |
| 3 | Extent of metering of water connections | 0% | 100% |
| 4 | Extent of non-revenue water | 29.33% | 9.33% |
| 5 | Quality of water supplied | 100% | - |
| 6 | Cost recovery in water supply services | 60.7% | 39.3% |
| 7 | Efficiency in collection of water supply related charges | 56.33% | 43.67% |

**Source of Water and Water Treatment System**

Please provide information in 150 words on the above responding to (however not limited to) following questions.

* What is the existing source of water? Is it surface water source or under ground water source? What is the capacity of these sources?
* **Surface water from Shivnath River storage in Anicut Capacity 50 mcft.**
* Is there any treatment provided to water from these sources? How much water is required to be treated daily? What is the treatment capacity installed in the city?
* **Yes, Treatment is provided. 34 MLD Water / 1.10 Mcft treated daily. Treatment capacity is 37 MLD.**
* What per capita water supply in LPCD (liter per capita per day) comes out, if you divide total water supply by the total population.
* uxj ikfyd fuxe] jktukanxkao N0x0 f’kkoukFk unh eksgkjk esa fufeZr ,uhdV ds ek/;e ls jkW&okVj fy;k tkrk gSA uxj fuxe esa lQsZl okVj ds ek/;e ls ty iznk; fd;k tkrk gSA bldh {kerk 37 MLD gS uxj fuxe esa izfrfnu 24 ,e-,y-Mh- ikuh dh vko”;drk gksrh gSA tc fd ifj’kkks/ku la;a= dh {kerk 34 ,e-,y-Mh- gSA uxj fuxe esa izfrfnu 130-12 ,y-ih-lh-Mh- ty iznk; fd;k tkrk Gsa PLEASE DIVIDE THE TOTAL WATER SUPPLIED BY TOTAL POPULATION OF THE ULB AND THEN WRITE HOW MUCH LPCD WATER IS SUPPLIED DAILY. PLEASE MENTION HOW MUCH WATER IS DAILY SUPPLIED AGAINST A DEMAND OF 24 MLD.

Ans – Total Population in year 2014-15 is 172917.

Water supply per day – 22.5 MLD.

Water supply in LPCD - 130.12

**Distribution Zones**

Please provide information in 150 words on the above responding to (however not limited to) following questions.

* City is divided in how many zones for water supply ?
* uxj fuxe esa ty iznk; 5 tksu esa fd;k tkrk gSA ftldk fooj.k fuEukuqlkj gS%&

tksu 1 %& “kadjiqj

tksu 2 %& vkj-ds- uxj

tksu 3 %& Vkadk?kj ,oa flfoy ykbZu

tksu 4 %& dUgkjqijh ,oa bafnjk uxj

tksu 5 %& flaxnbZ

* Provide details of total no of Households (HH) in each zone, no of HH with and without water tap connections in the Table 1.2.

Table 1.2: Zone Wise Coverage of Households

|  |  |  |  |
| --- | --- | --- | --- |
| **Zone No** | **Total No of Households** | **Households with Water tap Connection** | **Households without water tap connections** |
| 1 | 8026 | 3612 | 4414 |
| 2 | 5837 | 3094 | 2743 |
| 3 | 11010 | 7066 | 3944 |
| 4 | 8631 | 4575 | 4056 |
| 5 | 3632 | 1452 | 2180 |
| Total | 37136 | 19799 | 17337 |

**Storage of Water**

Please provide information in 150 words on the above responding to (however not limited to) following questions.

* What is the total water storage capacity in the city ? What is capacity of elevated and ground water reservoirs?
* ’kgj dh dqy okVj LVksjst {kerk 14-15 feyh;u yhVj gS dqy 11 vksOgj gsM VSad ds ek/;e ls lqcg ,oa ’kke feykdj lIykbZ fd;k tkrk gSA
* In case of surface water, does city need to have ground level reservoirs to store raw treated water?
* ugha
* Is water being supplied to consumers through direct pumping or through elevated reservoirs?
* miHkksDrk dks elevated reservoir ds ek/;e ls ty iznk; fd;k tk jgk gSA
* Is storage capacity sufficient to meet the cities demand ?
* gkWa

**Distribution Network**

Please provide information in 150 words on the above responding to (however not limited to) following questions.

* What is the total length of water supply distribution pipe line laid in the city?
* “kgj esa 50 ,e-,e-]80 ,e-,e-] 100 ,e-,e-] 150 ,e-,e-] 200 ,e-,e-] 250 ,e-,e-] 300 ,e-,e] 350 ,e-,e-] 400 ,e-,e- ,oa 500 ,e-,e- dqy forj.k ikbZi ykbZu 297 fd-eh fcNk gqvk gSA
* What is the total road length in the city? Is the pipe lines are laid in all streets? Is the objective of universal coverage of water supply pipe line is achieved?
* “kgj esa uxj fuxe dh dqy 267-02 fd-eh- lM+ds gS LVsV gkbZos dh 284 fd-eh- lM+ds ,oa us’kkuy gkbZos dh 33 fd-eh- lM+ds gSA lHkh xfy;ksa esa ikbZi ykbZu ugh fcNk;k x;k gS rFkk okVj lIykbZ ds ;qfuolZy dOjst dks izkIr ugh fd;k x;kA
* What are the kind of pipe materials used in distribution lines ?
* uxj fuxe esa forj.k ikbZi ykbZu esa ,-lh- izs”kj] th-vkbZ-] lh-vkbZ- ,oa Mh-vkbZ- eVsfj;y dk fcNk;k x;k gSA
* Provide zone wise details of street length with and without water distribution lines in the Table 1.3.

Table 1.3: Zone Wise length of distribution network

|  |  |  |  |
| --- | --- | --- | --- |
| **Zone No** | **Total Street Length** | **Street length with water distribution pipe line** | **Street length without water distribution pipe line** |
| Zone 01 | 111 | 39 | 72 |
| Zone 02 | 115 | 69 | 46 |
| Zone 03 | 127.5 | 102 | 25.5 |
| Zone 04 | 128.52 | 51 | 77.52 |
| Zone 05 | 102 | 36 | 66 |
| Total | 584.02 Km | 297 kilo meter | 287.02 km |

**Institutional Framework**

Please provide information in 150 words on the above responding to (however not limited to) following questions.

* Define role and responsibilities in terms of O&M, policy planning, funding, service provision in table 1.4.

Table 1.4: Functions, roles, and responsibilities

|  |  |  |
| --- | --- | --- |
| Planning and Design | Construction/ Implementation | O&M |
| ty iznk; O;oLFkk gsrq policy planning& Design PHED}kjk fd;k tkrk gSA jkT; ’kklu }kjk ty vko/kZu ;kstuk varxZr jk’kh miyC/k djk;h tkrh gS | Public Health Engineering Department | Municipal Corporation |

* How city is planning to execute projects ?
* Yks-Lok-;ka- foHkkx }kjk okMkZs dk loZs fd;k tkrk gS ,oa ekax ds vk/kkj ij Mh-ih-vkj- rS;kj fd;k tkrk gSA
* Shall the implementation of project be done by Municipal Corporation or any parastatal body? Please refer para 8.1 of AMRUT guidelines.
* **Project dk implementation yks-Lok-;ka-** (PHED)**foHkkx }kjk fd;k tkrk gSA**

**Bridge the Gap**

Once the gap between the existing Service Levels is computed, based on initiatives undertaken in different ongoing programs and projects, objectives will be developed to bridge the gaps to achieve universal coverage. (AMRUT Guidelines; Para 6.2 & 6.3, Annexure-2; Table 2.1). Each of the identified objectives will be evolved from the outcome of assessment and meeting the opportunity to bridge the gap.

* List out initiatives undertaken in different ongoing programs and projects to address these gaps. For this provide details of ongoing projects being carried out for sector under different schemes with status and when the existing projects are scheduled to be completed? Provide information in Table 1.4

Table 1.4: Status of Ongoing/ Sanctioned

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.**  **No.** | **Name of Project** | **Scheme Name** | **Cost** | **Month of Completion** | **Status**  **(as on dd mm 2015)** |
|  | Water Augmentation Scheme For Medical College & Periphary Area. | Water Augmentation Scheme Done by State Government PHED | 8.27 Crore | May 2016 | Tender has been floated by the P.H.E. Department and present status of the projest is work is in progress. |

* How much the existing system will able to address the existing gap in water supply system?Will completion of above will improve the coverage of network and collection efficiency? If yes, how much. (100 words)
* jktukanxkao esa esfMdy dkWyst] vkbZ-Vh-vkbZ- dkWyst] ikWfyVsdfud dkWyst] vkbZ-,p-Mh-ih- ;kstuk ,oa vVy vkokl ;kstuk varxZr fuekZ.kk/khu 1500 edku rFkk ubZ dkyksfu;ksa esa ty iznk; O;oLFkk gsrq ;g izkstsDV coverage of network and collection efficiencydks lq/kkjsxkA ftlls usVodZ ,oa collection efficiencyesa 5 izfr’kr o`f) gksxhA
* Does the city require additional infrastructure to improve the services? What kind of services will be required to fulfill the gap?
* **Yes, laying of new pipe line additional overhead tank & raising main line is required to fulfill the gap.**
* How does the city visualize to take the challenge to rejuvenate the projects by changing their orientation, away from expensive asset replacement programs, to focusing on optimum use of existing assets?
* **Municipal Corporation will take optimum use of existing assets.**PLEASE MENTION HOW DOES ULB PLANS TO MAKE OPTIMUM USE OF THE EXISTING ASSETS?

**Ans -** At present Municipal Corporation is taking water for water supply from Shivnath river Mohara in which 50 Mcft anicut is constructed and two water treatment plant capacity of 27 Mld & 10 MLD is running. Ongoing project which is run by PHE one etra transformer will be established, after establishment of transformer we can run extra motor pump for water supply by this way ULB PLANS TO MAKE OPTIMUM USE OF THE EXISTING ASSETS.

* Has city conducted assessment of Non Revenue Water ?if yes, what is the NRW level? Is city planning to reduce NRW ?
* **Yes, NRW level is 29% city is planning to reduced NRW upto 20% by decreasing the number of public taps and stop leakage by repairing of the existing pipeline.**
* Based on assessment of existing infrastructure and ongoing / sanctioned projects, calculate existing gaps and estimated demand by 2021 for water supply pipe network, number of household to be provided with tap connections, and required enhancement in capacity of water source/ treatment plant (MLD). Gaps in water supply service levels be provided as per Table 1.5.

Table 1.5 . Demand Gap Assessment for Water Supply Sector

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Component | 2015 | | | 2021 | |
| **Present** | **Ongoing projects** | **Total** | **Demand** | **Gap** |
| Source | 1.50 MCM | NA | 1.5 MCM | 1.5MCM | NA |
| Treatment capacity | 34 MLD | 2 MLD | 36 MLD | 36MLD | NA |
| Elevated Storage capacity | 14.15 MLD | 2 MLD | 16.15 MLD | 20.15 MLD | 4 MLD |
| Distribution network coverage | 297 Km | 21 Km | 308 km | 584.02 Km | 266.02 km |

Note :- Source (Capacity of Anicut) is 1.50 million Cubic MT and 8 MCM water reserve in Matia Moti Dam of irrigation Department for Summery.

**Objectives**

Based on above, objectives will be developed to bridge the gaps to achieve universal coverage. While developing objectives following question shall be responded so as to arrive at appropriate objective.

* Does each identified objectives will be evolved from the outcome of assessment?
* **Yes, each identified objectives will be evolved from the outcome of assessment**
* Does each objective meet the opportunity to bridge the gap?
* **Yes, each objective meet the opportunity to bridge the gap**

Please provide List out objectives to meet the gap in not more than 100 words.

PLEASE LIST OUT THE OBJECTIVES for e.g.

1. To bridge the gap in water supply by preparing a project for lying of water supply pipelines in areas not yet covered.
2. To reduce NRW by minimising leakage.
3. To install water meters.
4. ANY OTHER OBJECTIVES THAT ULB WISH TO ACHIEVE KINDLY WRITE.

Ans - For optimum use of coverage ULB is going to plan to give BHAGIRATHI NAL connection in all houses where at present benificiearies has no TAP connections. To install PLC and SCADA System for good quality.

1. **Examine Alternatives and Estimate Cost**

orZeku tks o"kZ 2021 rd dh ty iznk; O;oLFkk gsrq 37 ,e-,y-Mh ty iznk; ds nwjh dks lekIr djus ds fy, ih-,p-bZ foHkkx }kjk 0-827 djksM+ :i;s ds dk;ksZ dk fu"iknu dj mDr {kerk esa is;ty O;OkLFkk o"kZ ebZ 2016 rd iw.kZ fd;k tk ldsxk A bl gsrq ih-,p-bZ }kjk fufonk vkfn vkeaf=r fd;k tk pqdk gS ] ysfdu ;g fd o"kZ 2021 rd ds fy, gh fMekaM dks iw.kZ djus ds fy, gksxk ] tcfd ;kstuk esa ,sls vo;oks dks vkSj tksM+k tkos ftlls ty iznk; O;oLFkk vkus oys 15 o"kksZ rd lqpk: :i ls i;kZIr is;ty csap ekdZ vuqlkj iznk; fd;k tk lds ]lkFk gh ve`r xkbZM ykbZu ds iSjk 6-2]6-3]6-4]6-8] ,oa 6-9 dh vko';drkvksa dh iwfrZ Hkh dj lds ] blfy, vc izFke pj.k es ty iznk; O;oLFkk o"kZ 2033 rd laiw.kZ ty iznk; {ks= esa okVj ehVj dusD'ku ns;] 24@7 dUVhfuol okVj lIykbZ flLVe LdkMkZ@ ih-,y-,l ¼ vksOgj gsM VSad ,oa ikbZi ykbu esa ½ rFkk baVsfytsal ekfuVjh flLVe dh O;oLFkk ds lkFk iqjkuh ty forj.k ikbZi ykbZu dks cnyus u;s ikbZi ykbZu dk foLrkj ds vfrfjDr jkW okVj dh O;oLFkk ds fy, okVj fjlkslZ fMikZVZesaV ds fy, jkWokVj ,oa dsuky ds etcwrhdj.k dk dk;Z djk;k tkdj vfrfjDr jkWokVj dh izkfIr rFkk flapkbZ mi;ksx esa vkus okys ,fudV dh mWpkbZ c<+kdj vfrfjDr jkW okWVj dk laxzg.k u;s vksOgj gsaM VSad dk fuekZ.k vkfn 'kkfey gS A mDr lr~r~ ty iznk; O;oLFkk iz.kkyh ls ,u-vkj-MCY;w esa deh vk;sxh rFkk bls ,l-,y-ch ds ekin.Mksa ds vuq:i yk;k tk ldsxk A jkT; ljdkj }kjk tks tydj dh njs fu/kkZfjr gS ] njs i;kZIr gS ek= 100 izfr'kr ?kjksa esa miHkksDrk dusd'ku fn;s tkus dh vko';drk gS ftls mDr fLFkfr esa fd;k tk ldsxk lkFk gh vkijs'ku esa orZeku uxj fuxe ds foHkkxh; deZpkfj;ksa }kjk laikfnr dk;ksZ ls bUgs i`Fkd dj pj.k c/n <aXk ls ty 'kqf/ndj.k dk;Z ty iznk; ehVj jhfMax ] dk;Z ,o aty dj olqyh dk dk;Z futh vkijsVjksa dks lkSaius dh O;oLFkk dh tkosxh A pwfd ,d lkFk iwjs 'kgj esa 24@7 ty iznk; O;oLFkk ykxw ugh dh tk ldrh vkSj bl O;oLFkk ij vke yksxksa dk fo'okl ftruk Hkh ljy dk;Z ugha gS A tSls&tSls pj.kc/n <ax ls 'kgj esa 24@7 ty iznk; O;oLFkk foLrkfjr gksxh ] oSls&oSls futh vkijsVj ds dk;ksZ dks foLrkfjr fd;k tk ldsxk ftlls fuf'pr rkSj ij 5 o"kZ dk le; yxuk laHkkfor gS A vU; tkudkjh fuEukuqlkj gS &

1. orZeku rd uxj fuxe ds ty iznk; O;oLFkk LFkkfir djus jkT; ,oa dsUnz ljdkj ls 70%30 vuqnku ,oa \_.k ds vuqikr ij jkf'k izkIr gksrh jgh gS A blh O;oLFkk ds rgr vko';d QaM dh vko';drk gksxh A 30 izfr'kr \_.k jkf'k ds Hkqxrku gsrq cYd okWVj ehVj dusD'ku tSls & dkyksukbtj]QySV]dkj[kkuk O;olk;] m|ksx O;olk;] laLFkkuksa] LVkj gksVy]eSfjt x`g vkfn esa dSfiVy dkLV dk izfr'kr izfr gtkj yhVj ty dh ekax vuqlkj vyx ls olqy fd;k tk ldrk gS A
2. ty iznk; O;oLFkk 'gj dks fofHkUu tksu esa esa ckaVdj fd;k tkosxk ]ftlesa vyx&vyx tksu ds fu/kkZfjr dk;Z fQYVj IykaV ,oa jkbftax esu ds laHkkfor dk;Z dks NksM+dj okVj fjlkslZeasV fMikZaVesaV ds ,fudV LVksjst VSad]dsuky vkfn ds'kqf/ndj.k ds dk;ksZ dks ftdk ,oa ,-Mh-ch ds QafMax ls tksM+k tk ldrk gS D;ksfd ;s lHkh lajpuka, is;ty O;oLFkk ds fy, ikuh laxzg.k ds lkFk&lkFk flapkbZ]d`f"k dk;ksZ ds fy, Hkh ty laxzg.k ,oa ty forj.k dk dk;Z fu"ikfnu djsaxsa A
3. orZeku ekax ds xsi dks iw.kZ fd;s tkus gsrq :i;s 8-27 djksM+ dh Lohd`fr yksd LokLF; ;kaf=dh foHkkx jktukanxkao ls dk;Z djk;s tkus dh 'krZ ij jkf'k izkIr gks pqdh gS rFkk bl foHkkx }kjk fufonk bR;kfn tkjh fd;s tk pqds gS A jktukanxkao 'kgj 'kgj ds fy, lcls T;knk orZeku esa ifjorZu dk le; gS A bl ifjorZuks esa vkus okys le; esa ,dk,d tula[;k esa o`f/n vkS|ksfxd ,oa O;olkf;d fodkl u;s LFkkuh; ifjogu] u;s 'kS{kf.kd laLFkkvks dh LFkkiuk rFkk 'kgj ds vkl&ikl Liat vk;j.k ] dsUnz ljdkj dh LVhy QSDVªh muds vU; lgk;d m|ksxks tks 'kh?kz gh pkyq gksrs /kjkry es fn[kus yxsaxsA buds LFkkiuk ds iwoZ mues izkajfHkad dk;Z djus okys ekuony dk bl 'kgj esa cluk rFkk ;kstuka, pkyq gksus ds ckn QyksfVax ikiqys'ku dk c<+uk ,oa buds dkj.k 'kgj ds Hkhrj vU; O;olkf;d ,oa lkekftd xfrfof/k;ksa ds c<+us dh iwjh laHkkouk gS ftlds dkj.k vkt tula[;k esa o`f/n]ijek.kq foLQksV tSls gks ldrh gS ] blfy, orZeku esa rS;kj 48 ,e-,y-Mh {kerk o`f/n ds fy, vko';d jkf'k :i;s& 146-83 djksM+ dh Lohd`fr vfr vko';d gS A
4. tagk rd uxj fuxe }kjk iqjkuh ;kstukvks ls vuqHko lh[kus dh ckr gS A uxj fuxe dks ;g vuqHko gqvk fd ty iznk; ;kstuk dk foLrkj 'kgj ds vafre O;fDr dks is;ty miyC/k djkus ds fy, gks rFkk fu/kkZfjr le; esa dk;Z iw.kZ gks ftlls dk;Z dh ykxr esa o`f/n ugha gks ikrh gS ,oa le; lhek esa bldk ykHk ukxfjdks dks fey ldrk gS A foyEc gksus ls dk;Z rks iw.kZ gks tkosxk ysfdu ty iznk; tSlh O;oLFkk laLFkk ds fy, FkaSd ysl tkWc ds :i esa mHkjdj lkeus vk ldrh gS ] D;ksfd foyac dk izfrlkn laLFkk dks gh >syuh gS A
5. tWgk rd ubZ [kkst ,oa dk;ksZ dks vPNs <ax ls laikfnr fd;s tkus gsrq vU; vkdyu dh ckr gS oWgk ;g mYys[kuh; gS fd tc ge 24@7 ty iznk; O;oLFkk ykxw djsaxs rks ges oSls Hkh 'kgj dsk 5 gtkj dusD'ku tksu ls forfjr djuk gksxk vkSj izR;sd tksu esa oWgk dh yksdfyVh tSls vkoklh;] O;olkf;d] vkS|ksfxd] iw.kZ vkoklh;] v/nZ vkoklh; daVwj yscy ds vuqlkj ikbZi ykbu e mpkbZ] fuapkbZ ,oa vkoklh; ?kuRo ds vuqlkj laHkkfor tula[;k esa o`f/n ds vkdyu ds vuqlkj izR;sd tksu esa u;s&u;s buos'ku ,oa izSfDVl ,QkW;j fd;s tkus gksaxsa izk;% ;g ns[kus esa vk;k gS fd iwjs ns'k esa ,d 'kgj 50 gtkj& 01 yk[k tula[;k tc cl tkrk gS rks mDr 'kgj esa ty iznk; ;kstuk dk 'kqHkkjaHk gksrk gS vkSj 'kgj ds e/; ls ty iznk; O;oLFkk pkyw dj tWgk tula[;k iw.k gks jgh] oWgh rd ty iznk; forj.k ikbZi ykbZu dh O;oLFkk dh tkrh gSA tcfd tks u;k ikiqys'ku ;k u;s &u;s edku curs gS oWgk bl ty iznk; forj.k {ks= ds ckn gh c<+rk gS ftUgs Hkfo"; esa ge yEcs le; rd ty iznk; O;oLFkk ls tksM+ ugh ikrs ,oa 15 lkyksa ckn iqu% vko/kZu ;kstuk dk dky pkyw gksrk gS rc mUgs u;ha ;kstuk esa 'kkfey fd;k tkrk gS A bUgh fuokfLk;ksa ds dkj.k uxjh; {ks=- esa is; ty ds fy, =kfg&=kfg dh fLFkfr cuh jgrh gS A blfy, bu vuqHkoksa dks ns[kus ds i'pkr~ mijksDr dfBukbZ fdlh 'kgj esa u gks blds fy, ;g vko';d gks x;k gS fd tSls fd VSªfQd ekscsykbZts'ku ds fy, fjax jksM ;k ckW;ikl dk fuekZ.k dj VSªfQd ekscsykbZts'ku IYkkWu cuk;k tkrk gS rFkk 'kgj ds VSªfQd dks fodsUnzhd`r fd;k tkdj VSªfQd dks ckgj fd;k tkrk gS Ablh O;oLFkk dks viukdj ;Fkk laHko ty iznk; forj.k ikbZi ykbZu ,oa vksOgj gsaM VSad dks uohu fjax jksM ;k ckW;ikl jksM ds lehiLFk j[kdj orZeku esa e/; {ks= esa is;ty vkiwfrZ dh tk ldsa rFkk blh vksOgj gsaM VSad esa dqN forj.k ikbZi ykbu c<+kdj uohu tula[;k dks rRdky is;ty miyC/k djk;k tk lds ftlesa izkstsDV dkLV esa o`f/n ugha gksxh D;ksfd blesa jkbftax ikbZi ykbZu dh yackbZ esa deh gksxh rFkk vkmVj fjax esa forj.k ikbZi ykbZu esa o`f/n gksaxh A ysfdu bl O;oLFkk ls fuf'pr rkSj ij uxj ds Hkhrj clus okys vafre O;fDr rd is;ty O;oLFkk lqpk: :i ls dh tk ldrh gS ] ftls Hkh izkjafHkad rkSj ij fdlh Hkh 'kgj esa bEIyhesaV dj ifj.kke ns[kk tk ldrk gS A
6. lapkyu & la/kkj.k ds dher esa tSls Hkh deh fyadstQqzQ ikbZi ykbZu ds foLRkkj fQYVj IykaV esa LdkMkZ i/nfr ls lapkyu djus ls cgqr deh vk ldrh gS A tWgk rd laHko gks fo|qr mi;ksx djrs le; ikWoj QSDVj dks 0-95 ;k blls mij j[kdj mtkZ O;; esa deh dh tk ldrh gS A lHkh eksVj iai] okYo]LVkVZj esu fLop] iSuy lHkh izdkj ds eSdsfudy ,oa bysfDVªsy vkbZVe dk la/kkj.k le; ij dM+kbZ ls ekWfuVfjax dj O;; esa deh dh tk ldrh gS A fo|qr fcy dh Hkkafr dqN jkf'k dh olwyh vks-,u-,e ljpktZ dh Hkkafr dh tk ldrh gS rFkk ty iznk; dusD'ku esa lqjf{kr tek jkf'k dks ,Q-Mh-vkj ds :i esa tek dj miHkksDrk dks U;wure fu/kkZfjr C;kt dh jkf'k nsdj C;kt dh dqN jkf'k dk mi;ksx vks-,u-,e esa fd;k tk ldrk gS A VSadj vkfn ls eqDr ty iznk; O;oLFkk ij iw.kZ jksd yxuh pkfg, A
7. Mh-ih-,Q-vks-Vh ,oa tSls ih-ih-ih ekWMy O;olkf;d v/kkslajpuk ds fy, T;knk mfpr gksrs gS tWgk ij fd ,d fuf'pr le; esa ;kstuk dh ykxr fudy lds ] ftles ifjogu ds fy, ekxksZ dk fuekZ.k]iqy&iqfy;k dk fuekZ.k fdlh Hkh QSDVªh dh LFkkiuk dj ykHkdkjh mRiknu dks rS;kj djus dk gks lds ;g O;oLFkk 'kgj ds LVªhV ykbZV izdk'k O;oLFkk esa Hkh dh tk ldrh gS A ysfdu tWgk ij ty iznk; ;k Bksl vif'k"V izaca/ku vkfn ds dk;Z gS tks 100 izfr'kr ukxfjdks ls tqMak gksdj lsok dk;Z ds Hkh vkrk gS] esa iw.kZ :i ls bEIyhesaV ugha fd;s tk ldrs A blds ctk; ;kstuk ds fMtkbZu ,oa fuekZ.k dk dk;Z ,d laLFkk ls djk;k tkdj cYd okWVj fQYVj dk;Z nwljs laLFkk ls rFkk ty iznk; O;oLFkk ,oa tydj dh olwyh vyx&vyx vkWijsVjks ls djk;s tkus dks dk;Z ih-ih-ih ekWMy esa fd;k tk ldrk gS A ysfdu bls Hkh izkjafHkd rkSj ij viukdj ifj.kke fudkyk tkuk gksxk Apwfd gekjs ikl vc u;s paMhx<+]eksgkyh]u;s jk;iqj jkt/kkuh tSls 'kgj clkus dks izkIr ugha gks ik;saxs] tWgk Mh-ih-,Q-vks-Vh tSls ekWMy dk mi;ksx fd;k tk lds A orZeku esa gesa clk&clk;k 'kgj rFkk ,d iqjkuh ty iznk; O;oLFkk la lqlafTtr 'kgj gh iz;ksxkRed n`f"Vdks.k ls izkIr gksxk A ftls fofHkUu pj.kksa esa dk;Z dh izd`fr vuqlkj vFkkZr~ 'kqf/ndj.k] forj.k ,oa fu/kkZfjr djkjksi.k vuqlkj rFkk olwyh dk;Z ds vuqlkj dqy vyx&vyx vkWijsVj fu;qDr dj dj dj ldrs gS A

* What are the possible activities and source of funding for meeting out the objectives? (75 words)

**By the financial help of State govt. and Central Govt. meeting out the objective.**

* How can the activities be converged with other programme like JICA/ ADB funded projects in the city etc?

**As per requirement activities be converged with other programme like JICA/ ADB funded/SBM/Smart city mission projects in the city.**PLEASE MENTION HOW WILL THESE ACTIVITIES BE CONVERGED WITH OTHER PROGRAMMES?

**Ans –**State government allots fund to ULB different scheme Example 14th Finance Commission, SBM Funds, Smart City Mission and AMRUT Mission. So in this fund activities be converged.

* What are the options of completing the ongoing activities? (75 words)

KINDLY MENTION THE OPTIONS AVAILABLE FOR COMPLETION OF ONGOING ACTIVITIES

**Ans –**orZeku ekax ds xsi dks iw.kZ fd;s tkus gsrq :i;s 8-27 djksM+ dh Lohd`fr yksd LokLF; ;kaf=dh foHkkx jktukanxkao ls dk;Z djk;s tkus dh 'krZ ij jkf'k izkIr gks pqdh gS rFkk bl foHkkx }kjk fufonk bR;kfn tkjh fd;s tk pqds gS]jktukanxkao 'kgj ds fy, lcls T;knk orZeku esa ifjorZu dk le; gS A bl ifjorZuks esa vkus okys le; esa ,dk,d tula[;k esa o`f) vkS|ksfxd ,oa O;olkf;d fodkl u;s LFkkuh; ifjogu] u;s 'kS{kf.kd laLFkkvks dh LFkkiuk rFkk 'kgj ds vkl&ikl Liat]vk;ju]dsUnz ljdkj dh bLikr m|ksx muds vU; lgk;d m|ksxks tks 'kh?kz gh pkyq gksrs gh /kjkry es fn[kus yxsaxsA buds LFkkiuk ds iwoZ mues izkjafHkd dk;Z djus okys ekuony dk bl 'kgj esa cluk rFkk ;kstuka, pkyq gksus ds ckn ¼Floating Population) dk c<+uk ,oa buds dkj.k 'kgj ds Hkhrj vU; O;olkf;d ,oa lkekftd xfrfof/k;ksa ds c<+us dh iwjh laHkkouk gS ftlds dkj.k vkt tula[;k esa o`f/n]ijek.kq foLQksV tSls gks ldrh gS ] blfy, orZeku esa rS;kj 48 ,e-,y-Mh {kerk o`f/n ds fy, vko';d jkf'k :i;s 146-83 djksM+ dh Lohd`fr vfr vko';d gS A

* What are the lessons learnt during implementation of similar projects? (100 words)

**Public objection, encroachment, unauthorized construction, private land . arethe major issues for implementation.**

* Have you analysed best practices and innovative solutions in sector? Is any of the practice be replicated in the city?(75 words)

**Public meeting, land Compensation, communication between ULB & citizens are the best solution.** PLEASE WRITE IF BEST PRACTICES FROM OTHER CITIES/ STATES/ COUNTRIES HAVE BEEN STUDIED IF ANY.

Ans – We want 24x7 water Supply in our Municipal Corporation like Hyderabad Municipal Corporation.

* What measures may be adopted to recover the O&M costs?(100 words)

**Integrated tax and water Tax given by the households.**

* Whether reduction in O&M cost by addressing NRW levels be applied?(75 words)

**Yes**

* Are different options of PPP such as Design-build-Operate-Transfer (DBOT), Design Built Finance Operate and Transfer (DBFOT) are considered?

**Yes,of PPP such as Design-build-Operate-Transfer (DBOT), Design Built Finance Operate and Transfer (DBFOT) are being considered.**

The alternative activities to meet these activities be defined as per Table 1.6

Table1.6 Alternative Activities To Meet ObjectivesPLEASE MENTION THE ACTIVITIES TO ACHIEVE 100% COVERAGE OF WATER SUPPLY NETWORK.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr.**  **No.** | **Name of ULB** | **Objective** | **Activities** | **Financing**  **Source** |
| 1. | **Municipal Corporation Rajnandgaon (C.G.)** | 100% coverage of water supply | Providing and laying distrubution pipe line and house service connection to all family and construction of OHTwithin municipal corporation limit. | State govt. and Central Govt. |

1. **Citizen Engagement**

ULBs will organize and conduct city level citizen consultation and receive feedback on the suggested alternatives and innovations. Each alternative will be discussed with citizens and activities to be taken up will be prioritized to meet the service level gaps. ULB will prioritize these activities and their scaling up based on the available resources. (AMRUT Guidelines; Para 6.6, 6.7 & 7.2). Please explain following questions in not more than 200 words detailing out the needs, aspirations and wishes of the local people.

* Has all stakeholders involved in the consultation?

**Yes, all stakeholders involved in the consultation**(PLEASE MENTION WHEN WAS THE CONSULTATION HELD – DATE. HOW MANY CONSULTATIONS HAVE BEEN ORGANIZED SO FAR? WHAT WAS THE NUMBER OF PARTICIPANTS? WHO WERE THE STAKEHOLDERS INVITED? WHAT ISSUES WERE DISCUSSED? WHAT SUGGESTIONS WERE GIVEN BY THE PARTICIPANTS?)



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 26 | 14.07.2015 |  | 15 | 07 |  |
| 27 | 14.07.2015 | 24 | 03 |
| 28 | 14.07.2015 | 25 | 16 |
| 29 | 14.07.2015 | 26 | 03 |
| 30 | 14.07.2015 | 37 | 01 |
| 31 | 14.07.2015 | 27 | 04 |
| 32 | 14.07.2015 | 28 | 02 |
| 33 | 14.07.2015 | 36 | 22 |
| 34 | 14.07.2015 | 38 | 11 |
| 35 | 14.07.2015 | 39 | 09 |
| 36 | 14.07.2015 | 48 | 06 |
| 37 | 14.07.2015 | 29 | 06 |
| 38 | 14.07.2015 | 30 | 09 |
| 39 | 14.07.2015 | 31 | 03 |
| 40 | 14.07.2015 | 32 | 05 |
| 41 | 14.07.2015 | 33 | 13 |
| 42 | 14.07.2015 | 34 | 17 |
| 43 | 14.07.2015 | 35 | 05 |
| 44 | 14.07.2015 | 40 | 01 |
| 45 | 14.07.2015 | 41 | 02 |
| 46 | 14.07.2015 | 42 | 17 |
| 47 | 14.07.2015 | 43 | 16 |
| 48 | 14.07.2015 | 46 | 21 |
| 49 | 14.07.2015 |  | 47 | 05 |  |
| 50 | 14.07.2015 | 49 | 02 |
| 51 | 14.07.2015 | 50 | 07 |
| 52 | 14.07.2015 | 51 | 05 |
|  |  | Total |  | 544 |

* Has ward/ zone level consultations held in the city?

**Yes, ward/ zone level consultations held in the city**(CONSULTATIONS HAVE BEEN CONDUCTED IN HOW MANY WARDS?)(51 Wards)

* Has alternative proposed above are crowd sourced?

**Yes, alternative proposed above are crowd sourced**

* What is feedback on the suggested alternatives and innovations?

**Laying new distribution & raising pipe line, construction of OHT increased the capacity of filter plant & 24x7 water supply etc are the Feedback**

Ans – In municipal Corporation there are 9 Rural Wards, where many areas there is no Surface water supply they want laying Pipeline , Construction of OHT for surface water supply. In municipal Corporation maximum Areas is covered by AC pressure Pipeline due to this the problem of leakage is more, so for avoiding contiminiation in water they want DI pipeline. BPL families want Bhagirathi Nal- jal Connection.

* Has alternative taken up for discussions are prioritized on the basis of consultations?

**Yes**

* What methodology adopted for prioritizing the alternatives?

**As per survey, requirement and public demand prioritizing the alternative**

1. **Prioritize Projects**

Based on the citizen engagement, ULB will prioritize these activities and their scaling up based on the available resources to meet the respective objectives. While prioritizing projects, please reply following questions in not more than 200 words.

* What are sources of funds?

**State & central gov**

* Has projects been converged with other program and schemes?

**Yes**

* Has projects been prioritized based on “more with less” approach?

**Yes**

* Has the universal coverage approach indiated in AMRUT guidelines followed for prioritization of activities?

**Yes**

1. **Conditionalities**

Describe in not more than 300 wordsthe Conditionalities of each project in terms of availability of land, environmental obligation and clearances, required NOC, financial commitment, approval and permission needed to implement the project.

HERE PLEASE MENTION WHAT ARE THE CONDITIONS FOR WATER SUPPLY PROJECTS

**Ans - Financial allotement is must for ULB by the State or Central Govt. we have demanded 50% share of Central Govt. & 30% share of State Govt. and 20% Share of ULB. The land will be aquire by the district collectorate level. Environmental Clearence will be taken by the Pollution Control Board.**

**-There should be policy by the State gov. & ULB for land acquisition, envirmental clearance availability of fund, approval and permissionis necessary.**

1. **Resilience**

Required approvals will be sought from ULBs and competent authority and resilience factor would be built in to ensure environmentally sustainable water supply scheme.Describe in not more than 300 words regarding resilience built in the proposals.

**Resilience factor will be acceptable for completion of project –** NOT CLEAR PLEASE EXPLAIN.

Ans – if their wiould be any problem to find Environmental Clearence or Land acquisition then for water supply Project we will request to competent authority for resilience.

1. **Financial Plan**

Once the activities are finalized and prioritized after consultations, investments both in terms of capital cost and O&M cost has to be estimated. (AMRUT Guidelines; para 6.5) Based on the investment requirements, different sources of finance have to be identified. Financial Plan for the complete life cycle of the prioritized development will be prepared. (AMRUT Guidelines; para 4, 6.6, 6.12, 6.13 & 6.14). The financial plan will include percentage share of different stakeholders (Centre, State and City) including financial convergence with various ongoing projects. While preparing finance plan please reply following questions in not more than 250 words

* How the proposed finance plan is structured for transforming and creating infrastructure projects?

**The Financial Plan yearwise has been given in table no 2.3.1**

* list of individual projects which is being financed by various stakeholders ?

**No individual projects which are being financed by various stakeholders**

* Has financial plan prepared for identified projects based on financial convergence and consultation with funding partners?

**Yes financial plan will be prepared for identified projects based on financial convergence and consultation with funding partners**

* Is the proposed financial structure is sustainable? If so then whether project has been categorized based on financial considerations ?

**Yes**

* Have the financial assumptions been listed out ?

**Yes**

* does financial plan for the complete life cycle of the prioritized development?

**Yes**

* does financial plan include percentage share of different stakeholders (Centre, State, ULBs and)

**Yes**

* does it include financial convergence with various ongoing projects.

**Yes**

* Does it provide year-wise milestones and outcomes ?

**Yes**

Details in financial plan shall be provided as per Table 1.7,1.8,1.9,1.10 and 1.11. These tables are based on AMRUT guidelines tables 2.1, 2.2,2.3.1,2.3.2, and 2.5.

Table 1.7 MasterPlan of Water Supply Projects for Mission period

(As per Table 2.1of AMRUT guidelines)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name of City:Rajnandgaon (Chhattisgarh) Current Mission Period (2015-20)** | | | | | |
| **Table 2.1: SLIP - Master Plan of all projects to achieve universal coverage of water supply and sewerage during current Mission period (FY 2015-16 to 2019-20)** | | | | | |
|
| **Sr. No.** | **Project Name and Code (List all project to achieve universal coverage in the city seprately for water supply and sewerage)** | **Infrastucture improvement** | | | |
| **Change in service Levels** | | | **Estimated Cost (Amount in Rs. in Cr.)** |
| **Priority number** | **Year in Which to be improvement** | **Year in which proposed to be completed** |
| 1 | AMRUT/CG/Rajnandgaon/WS/01/A | 1 | 2015 | 2016 | 26.94 |
| 2 | AMRUT/CG/Rajnandgaon/WS/01/B | 2 | 2016 | 2017 | 26.94 |
| 3 | AMRUT/CG/Rajnandgaon/WS/01/C | 3 | 2017 | 2018 | 26.95 |
|  |  |  |  |  | 80.83 |

Table 1.8 Master Service Levels Improvements during Mission Period

|  |
| --- |
| **Name of City:Rajnandgaon (Chhattisgarh) Current Mission Period (2015-16)** |
| **Table 2.2 : SLIP - Details of Prioritized Projects Proposed under AMRUT during current FY : Sector Wise** |
|

(As per Table 2.2 of AMRUT guidelines) (Amountin Rs.Cr)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sector** | **Project Name and Code** | **Infrastucture improvement** | | | | | |
| **Physical Components** | **Change in service Levels** | | | **Estimated Cost (Amount in Rs.)** | **Ependiture** |
| **Indicator** | **Existing (As-is)** | **After (To-be)** | **2015-16** |
| Water supply | Water supply | 1.Construction of OHT 02 Nos | Per capita Supply of Water | 130.12LPCD | 135.00LPCD | 2.0 | 2.0 |
| 2.Providing & Laying Distributaion Pipe lne | Coverage | 53.30% | 55% | 18.9 | 18.9 |
| 3. Inter liking of two different WTP 10 MLD -27 MLD | Per capita Supply of Water | 130.12LPCD | 131.50LPCD | 0.5 | 0.5 |
| 4.House connection | Coverage& Cost recovery & water supplay | 53.30% | 60% | 3.0 | 3.0 |
| 5 Consumer Meters | Cost Recory | 60.70% | 70% | 2.0 | 2.0 |
| 6.PLC & SCADA of Entire System of Part 1 & Part 2 | Quality | 100.00% | 100% | 0.5 | 0.5 |
| **Total** |  | - | - | **26.94** | **26.94** |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Name of City:Rajnandgaon (Chhattisgarh) Current Mission Period (2015-20)** | | | | | | | | | |
| **Table 2.2 : SLIP - Details of Prioritized Projects Proposed under AMRUT during current FY : Sector Wise** | | | | | | | | | |
|
| **Sector** | **Project Name and Code** | **Infrastucture improvement** | | | | | | | |
| **Physical Components** | **Change in service Levels** | | | **Estimated Cost (Amount in Rs.)** | **Ependiture** | | |
| **Indicator** | **Existing (As-is)** | **After (To-be)** | **2015-16** | **2016-17** | **2017-18** |
| Water supply | Water supply | 1.Construction of OHT 02 Nos | Per capita Supply of Water | 130.12LPCD | 135.00LPCD | 4.00 | 2.0 | 2.000 | - |
| 2.Providing & Laying Distributaion Pipe lne | Coverage | 53.30% | 100% | 60.00 | 18.9 | 19.94 | 21.12 |
| 3. Inter liking of two different WTP 10 MLD -27 MLD | Per capita Supply of Water | 130.12LPCD | 135.00LPCD | 0.500 | 0.5 | - | - |
| 4.House connection | Coverage | 53.30% | 100% | 6.33 | 3.0 | 3.00 | 0.33 |
| 5 Consumer Meters | Cost Recory | 60.70% | 100% | 9.5 | 2.0 | 2.00 | 5.5 |
| 6.PLC & SCADA of Entire System of Part 1 & Part 2 | Quality | 100.00% | 100% | 0.5 | 0.5 |  | - |
| **Total** |  | - | - | **80.83** | **26.94** | **26.94** | **26.95** |

Table1.9 Annual FundSharing Pattern for Water Supply Projects

(As per Table 2.3.1of AMRUT guidelines)

(Amountin Rs. Cr)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sr.  No. | Name of Project | Total Project  Cost | Share | | | | |
| GOI | State | ULB | Others | Total |
| 01 | **water supply scheme**(AMRUT/CG/RJN/WS/01 | 26.94 | 13.47 | 8.08 | 5.39 | 0 | 26.94 |
| 02 | **water supply scheme**(AMRUT/CG /RJN/WS/02 | 26.94 | 13.47 | 8.08 | 5.39 | 0 | 26.94 |
| 03 | **water supply scheme**(AMRUT/CG/RJN/W  S/03 | 26.95 | 13.48 | 8.08 | 5.39 | 0 | 26.95 |
|  | Total |  |  |  |  |  | 80.83 |

Table 1.10 Annual Fund Sharing Break-up for Water Supply Projects

(As per Table 2.3.2 of AMRUT Guidelines)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sr.  No. | Project | GoI | State | | | ULB | | |
| 14th  FC | Others | Total | 14th  FC | Others | Total |
| 1 | **water supply scheme**(AMRUT/CG/RJN/WS/01 | 13.47 |  | 8.08 | 8.08 |  | 5.39 | 5.39 |
| 2 | **water supply scheme**(AMRUT/CG /RJN/WS/02 | 13.47 |  | 8.08 | 8.08 |  | 5.39 | 5.39 |
| 3 | **water supply scheme**(AMRUT/CG/RJN/Ws03  S/03 | 13.48 |  | 8.08 | 8.08 |  | 5.39 | 5.39 |
|  | Total | **40.42** |  |  | **24.24** |  |  | **16.17** |

(Amountin Rs.Cr)

Table 1.11Year wise Plan for Service Levels Improvements

(As per Table 2.5 of AMRUT guidelines)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Name of City:Rajnandgaon (Chhattisgarh) FY: 2016-2020** | | | | | | | | | |
| **Table 2.5 : SLIP -Plan for Achieveing Service Level Benchmarks** | | | | | | | | | |
|
| **Proposed Projects** | **Total Project Cost (Cr)** | **Indicator** | **Baseline** | **Annual Targets (Increment from the baseline Value)** | | | | | |
| **FY 2016** | | **FY 2017** | **FY 2018** | **FY 2019** | **FY 2020** |
| **H1** | **H2** |
| **Water Supply** | | | | | | | | | |
|  | 80.83 | 1. Household level coverage of direct water supply connections (% ) | 53.30% | 0 |  | 60% | 70% | 100% |  |
| 2. Per capita quantum of water supplied (liter) | 30.12LPCD |  | - | 135 LPCD | 135 LPCD | 135 LPCD | 135 LPCD |
| 3. Quility of water supplied (%) | 100 | - | - | - | - | - | 100 |