**Additional Information**

**Unstarred Assembly Question No. 101**

There are 03 dams proposed on River Ghaggar namely Dangrana dam, Dewanwala dam and Chhamla dam with Gross storage capacity as 2495.72 Ha-m, 4575.72 Ha-m and 342.93 Ha-m respectively. The cases of these 03 no. dams stands submitted to Ghaggar Standing Committee for clearance. Besides these 3 no. dams on Ghaggar, feasibility report regarding 3 dams on river Tangri or its tributaries namely Khetpurali Dam, B hud Dam and Dudhgarh Dam with storage capacity as 403.13 Ha-m, 794.90 Ha-m and 349.80 Ha-m respectively was also got conducted.

Further, 01 no. dam on River Kaushalya namely Kaushalya Dam with storage capacity as 1368.10 Ha-m has been successfully completed during the year 2011 at a cost of Rs. 217.00 Crore.

Also there is a proposal for construction of 08 no. dams on River Yamuna or its tributaries (out of which 06 no. dams are on River Pathrala and 02 no. dams are on River Somb) with total storage capacity as 2187.80 Ha-m, out of which the wildlife clearance for 04 no. dams has been approved from National Board of Wildlife and DPR of 02 no. dams are under preparation and case for interstate clearance of 02 no. dams stands submitted to CWC. The salient features/present status of all the above dams on river Ghaggar, Tangri and Yamuna & their tributaries is attached in tabular form (**Annexure-A**).

As far as construction of Check Dams is concerned, it is brought out that in the State construction of check dams is mainly taken up by Forest Department as well as Agriculture and Farmers Welfare Department. In Shivalik Hills, 28 No. check dams with storage capacity as 85.34 Ha-m stand constructed & 05 No. check dams with storage capacity 51.41 Ha-m are under construction. In Aravalli Hills, 15 No. check dams with storage capacity as 60.68 Ha-m stand constructed & 02 No. check dams with storage capacity as 84.56 Ha-m are under construction to conserve the water. The details of check Dams as received from Forest Department, Agriculture and Farmers Welfare Department and Irrigation and Water Resources Department are attached as **Annexure-B**.

**In Shivalik Hills**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Name of Deptt.** | **Year of Construction 2021-22** | | **Year of Construction**  **2022-23** | |
| **No.** | **Storage Capacity**  **(Ha-m)** | **No.** | **Storage Capacity**  **(Ha-m)** |
| 1. | Forest Deptt. | 17 | 54.24 | 5  (Under Const.) | 51.41 |
| 2. | Agriculture & Farmers Welfare Deptt. | 02 | 9.80 | 09 | 21.3 |
|  | **Total** | **19** | **64.04** | **14** | **72.71** |

**In Aravalli Hills**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Name of Deptt.** | **Year of Construction**  **2021-22** | | **Year of Construction**  **2022-23** | |
| **No.** | **Storage Capacity**  **(Ha-m)** | **No.** | **Storage Capacity**  **(Ha-m)** |
| 1. | Forest Deptt. | 04 | 19.29 | - | - |
| 2. | Agriculture & Farmers Welfare Deptt. | 02 | 3.40 | 04 | 6.40 |
| 3. | Irrigation & Water Resources Department, Haryana | 02 | 30.40 | 03  +  02 (under const.) | 1.19  +  84.56 |
|  | **Total** | **08** | **53.09** | **09** | **92.15** |

**अतिरिक्त सूचना**

**विधानसभा अतारांकित** प्रश्न संख्या 101

घग्घर नदी पर 03 बांध प्रस्तावित हैं, जिनके नाम हैं डंगराना बांध, दीवानवाला बांध और छमला बांध, जिनकी कुल भंडारण क्षमता क्रमशः 2495.72 हेक्टेयर मीटर, 4575.72 हेक्टेयर मीटर और 342.93 हेक्टेयर मीटर है। इन 03 बांधों के केस को मंजूरी के लिए घग्घर स्थायी समिति को प्रस्तुत किया जा चुका है। घग्गर नदी पर इन 3 बांधों के अलावा, टांगरी नदी या उसकी सहायक नदियों पर 3 बांधों यानी खेतपुराली बांध, बुध बांध और दूधगढ़ बांध, जिनकी भंडारण क्षमता क्रमशः 403.13 हेक्टेयर मीटर, 794.90 हेक्टेयर मीटर और 349.80 हेक्टेयर मीटर है, के संबंध में व्यवहार्यता रिपोर्ट भी बनवाई गई थी।

इसके अलावा, कौशल्या नदी पर 1368.10 हेक्टेयर मीटर की भंडारण क्षमता वाला एक बांध यानी कौशल्या बांध है, जिसको वर्ष 2011 के दौरान, 217.00 करोड़ रुपये की लागत से सफलतापूर्वक बनाया जा चुका है।

साथ ही यमुना नदी या इसकी सहायक नदियों पर 08 बांधों के निर्माण का कार्य भी प्रस्तावित है, (जिनमें से 06 बांध पथराला नदी पर हैं और 02 बांध सोम नदी पर हैं), जिनकी कुल भंडारण क्षमता 2187.80 हेक्टेयर मीटर है, जिसमें से 04 बांधों के लिए वन्यजीव मंजूरी ¼wildlife clearance½ को राष्ट्रीय वन्यजीव बोर्ड से अनुमोदित किया जा चुका है और 02 बांधों की विस्तृत रिपोर्ट तैयार की जा रही हैं और अन्य 02 बांधों की अंतर्राज्यीय निकासी का मामला सीडब्ल्यूसी को सौंपा जा चुका है। घग्घर, टांगरी और यमुना तथा इनकी सहायक नदियों पर उपरोक्त सभी बांधों की मुख्य विशेषताएं/वर्तमान स्थिति सारणीबद्ध रूप में **Annexure-A** पर संलग्न है।

जहां तक चैक बांध के निर्माण का संबंध है, यह बताया जाता है कि राज्य में चैक बांध का निर्माण मुख्य रूप से वन विभाग के साथ-साथ कृषि और किसान कल्याण विभाग द्वारा किया जाता है। जलसंरक्षण हेतु शिवालिक पहाड़ियों में 85.34 हेक्टेयर मीटर की भंडारण क्षमता वाले 28 चैक बांध बनाये गए है और 51.41 हेक्टेयर मीटर की भंडारण क्षमता वाले 05 चैक बांध निर्माणाधीन है। अरावली पहाड़ियों में 60.68 हेक्टेयर मीटर की भंडारण क्षमता वाले 15 चैक बांध बनाये गए है और 84.56 हेक्टेयर मीटर की भंडारण क्षमता वाले 02 चैक बांध निर्माणाधीन है। वन विभाग, कृषि एवं किसान कल्याण विभाग तथा सिंचाई एवं जल संसाधन विभाग से प्राप्त चैक बांध का विवरण **Annexure-B** पर संलग्न है।

**In Shivalik Hills**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Name of Deptt.** | **Year of Construction 2021-22** | | **Year of Construction**  **2022-23** | |
| **No.** | **Storage Capacity**  **(Ha-m)** | **No.** | **Storage Capacity**  **(Ha-m)** |
| 1. | Forest Deptt. | 17 | 54.24 | 5  (Under Const.) | 51.41 |
| 2. | Agriculture & Farmers Welfare Deptt. | 02 | 9.80 | 09 | 21.3 |
|  | **Total** | **19** | **64.04** | **14** | **72.71** |

**In Aravalli Hills**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Name of Deptt.** | **Year of Construction**  **2021-22** | | **Year of Construction**  **2022-23** | |
| **No.** | **Storage Capacity**  **(Ha-m)** | **No.** | **Storage Capacity**  **(Ha-m)** |
| 1. | Forest Deptt. | 04 | 19.29 | - | - |
| 2. | Agriculture & Farmers Welfare Deptt. | 02 | 3.40 | 04 | 6.40 |
| 3. | Irrigation & Water Resources Department, Haryana | 02 | 30.40 | 03  +  02 (under const.) | 1.19  +  84.56 |
|  | **Total** | **08** | **53.09** | **09** | **92.15** |

**Annexure-A**

**SALIENT FEATURES OF 8 NO. DAMS PROPOSED IN LOWER SHIVALIK HILLS IN RESPECT OF YWS (N) UNIT**

| **Sr. No.** | **Description** | **Chiken Dam** | **Kansli Dam** | **Ambawali Dam** | **Nagli Dam** | **Khillanwalla Dam** | **Darpur Dam** | **Lohgarh Dam** | **Dhanaura Dam** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1.** | **Location** | ChikanKhol (tributary of PathralaNadi)  Tehsil– Chhachhrauli  Distt. – Yamuna nagar | Kansli ki khol (Tributary ofPathralaNadi).  Tehsil – chhachhrauli  Distt. – Yamuna nagar | Tributary of PathralaNadi.  Tehsil – chhachhrauli  Distt. – Yamunanagar | Nagli ki Khol (tributary of PathralaNadi)  Tehsil – chhachhrauli  Distt.- Yamuna nagar | Tributary of PathralaNadi.  Tehsil – chhachhrauli  Distt. –Yamuna nagar | Palasikhol (tributary of PathralaNadi)  Tehsil-chhachhrauli  Distt.- Yamuna nagar | Lohgarh Ki Khol (Tributary of Somb river) | Dhanaura Ki Khol (Tributary of Somb river) |
| **2.** | **State** | Haryana | Haryana | Haryana | Haryana | Haryana | Haryana | Haryana& Himachal Pradesh | Haryana&Himachal Pradesh |
| **3.** | **Executive Agency** | Haryana Irrigation & Water Resources Deptt | Haryana Irrigation & Water Resources Deptt | Haryana Irrigation & Water Resources Deptt | Haryana Irrigation & Water Resources Deptt | Haryana Irrigation & Water Resources Deptt | Haryana Irrigation & Water Resources Deptt | Haryana Irrigation & Water Resources Deptt | Haryana Irrigation & Water Resources Deptt |
| **4.** | **Share of Haryana** | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |
| **5.** | **Type of Dam**  **(Height of Dam)** | Earthen Dam  25.90 m | Earthen Dam  22.30 m | Earthen Dam  23.15 m | Earthen Dam  34.00 m from deepest bed level of 354.00 m | Earthen Dam  20.50 m from deepest bed level of 337.50 m | Earthen Dam  17.25 m from deepest bed level of 348.00 m | Earthen Dam  (30.05 m) | Earthen Dam  (21.0 m) |
| **6.** | **Reservoir Area at FTL** | 15.26 Hectare | 18.75 Hectare | 36.12 Hectare | 31.247 Hectare | 54.32 Hectare | 31.08 Hectare | 35.883 Hectare | 61.64 Hectare |
| **7** | **Storage Capacity** | 1.29 MCM | 1.45 MCM | 2.998 MCM | 3.15 MCM | 3.35 MCM | 1.74 MCM | 3.47 MCM | 4.43 MCM |
| **8** | **Catchment area** | 3.00 sq. km | 3.66 sq.km | 7.43 sq.km | 8.25 sq.km | 7.17 sq.km | 4.72 sq.km | 14.80 Sq. km | 36.12 Sq. km. |
| **9** | **Power Installed Capacity** | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL |
| **10** | **Irrigation Benefits** | 1000 Acres CCA | 1311 Acres CCA | 2233Acres CCA | 1530 acres CCA | 3200 acres CCA | 1500 acres CCA | 6708 Acres CCA | 6708 Acres CCA |
| **11** | **Village abadi affected** | Nil | Nil | Nil | Nil | Nil | Nil | Nil | 800 persons of village Haripur |
| **12** | **No of villages to be served** | 1 Chiken  2Shahzad wala,  3Muquribpur  4 Daulatpur  5 Dhakwala  6 KotSarkari  7 Kot  8 Mushtarka | 1 Kansli  2 Baniawala,  3 Khilanwala  4 Meghowa  5 Nathanpur,  6 Tibbi  7 Thon  8 Balahaipur,  9 Bhangera | 1 Ambawali  2 Tibriyon  3 NagalPattti  4 Milak,  5 Chandanpur,  6 Khizri,  7 Bagpat,  8 Bhangeri,  9 Lahasabad,  10 Tamiuo,  11 Kishanpur,  12 Khizrabad,  13 Muzfatkalan | 1 Nagli  2 Sanderpur  3 Ganrabani  4 Rajpur  5 Rampur  6 JatChabutaran  7 Pirthipur  8 Tarpur  9 Bir-Tarpur  10 Haidarpur  11 Jaitpur  12 Mehran. | 1) Bagpat  2) Bhangeri  3) Bhangera  4) Muzafat Khurd  5) Bari Muzafat  6) Bakarwala  7) Muhabatwala  8) Lahasabad  9) Hafizpur | 1 Darpur  2 Jatanwala  3 Sipianwala  4 Chuharpur  5 Shahabuddinpur Kalan  6 Shahabuddinpur Khurd  7 Muqaribpur | 1 Bahadurpur  2 Gadwan  3 AlisherpurMajra  4 Ramgarh  5 Chholi  6 Katarwall  7 Jogiwara  8 Manakpur  9 Bari Lalhari  10 ChhotiLalhari  11 Bankat  12 Chantpur  13 Manipur  14 Khanuwala  15 Tugalpur  16 BarauliMajra  17 Arjan Majra  18 KotBasawar Singh  19 KotMushtarka  20 Ghisarpari |  |
| **13.** | **Water supply for 162 days** | 2.40 cusecs | 3.15 cusecs | 5.36 cusecs | 9.61 cusecs | 7.68 cusecs | 4.893 cusecs |  |  |
| **14.** | **Forest land as per Feasibility Report** | 27.31 Ha | 23.26 Ha | 60.57 Ha | 31.36 Ha | 57.061 Ha | 27.31 Ha |  |  |
| **15.** | **Forest land and Status of DPR** | DPR Received  25.90 Ha | DPR Received 22.90 Ha | DPR Received 43.57 Ha | DPR received & under examination | DPR received  40.56 Ha | DPR received & under examination |  |  |
| **16** | **Benefit Cost Ratio** | 1.008:1 | 1.002:1 | 1.004 :1 | 1.06:1 | 2.23:1 | 0.96:1 | 0.93:1 | 0.97:1 |
| **17.** | **Latitude (N)**  **Longitude (E)** | 30022’50”  77029’22.50” | 30021’40.65”  77025’6.48” | 30019’45”  77031’36” | 30024’44”  77024’44” | 30020’46”  70029’30” | 300.23’11’’  77027’16” | 30025’09”  77024’09” | 30027’00”  77023’00” |
| **18.** | **Estimated Cost** | 1997.05 lacs | 1867.40 lacs | 3204.88 lacs | 3066.00 lacs | 2910.00 lacs | 2285.00 lacs |  |  |
|  | **CLEARANCE STATUS** | |  |  |  |  |  |  |  |
| **19.** | **Techno Economic appraisal by CWC** | Not required | Not required | Not required | Not required | Not required | Not required | Reservoir of dam lie in Himachal Pradesh, therefore in principle concurrence of HP is required to proceed further in matter. But before that being interstate project the pre-feasibility report is required to be examined regarding technical point of view from CWC.  The case was uploaded in e-PAMS portal of CWC, Chandigarh. Now CWC, Chandigarh has informed that being interstate project the matter would be taken up with UYRB, New Delhi | Reservoir of dam lie in HP therefore in principle concurrence of HP is required to proceed further in matter. But before that being interstate project the pre-feasibility report is required to be examined regarding technical point of view from CWC. The case was uploaded in e-PAMS portal of CWC, Chandigarh. Now CWC, CHD has informed that being interstate project the matter would be taken up with UYRB, New Delhi |
| **20.** | **Techno Economic appraisal by CEA** | Not required | Not required | Not required | Not required | Not required | Not required |
| **21.** | **Environment Clearance** | Not required | Not required | Not required | Not required | Not required | Not required |
| **22.** | **Forest & wildlife clearance** | Case approved from National Board of Wild Life (NBWL). | Case approved from National Board of Wild Life (NBWL). | Case approved from National Board of Wild Life (NBWL). | Dam axis of Nagli dam submerges forest chownki and some other households. Dam axis is to be shifted uphill for which work is under process with IIT, Roorkee. Afresh proposal will be supplied for forest & wildlife clearance accordingly. | Case approved from National Board of Wild Life (NBWL). | Proposed dam involves rehabilitation and resettlement of families; hence case will be applied, once R&R Plan is prepared for which the case is under process with IIT, Roorkee. |
| **23.** | **Investment Clearance** | State Funds required | State Funds required | State Funds required | State Funds required | State Funds required | State Funds required |
| **24.** | **Interstate Clearance** | Not required | Not required | Not required | Not required | Not required | Not required | Case submitted to CWC for interstate clearance | Case submitted to CWC for interstate clearance |
| **25.** | **Current Status** | Case approved from National Board of Wild Life (NBWL). KML file yet to be prepared. | Case approved from National Board of Wild Life (NBWL).  KML file to be submitted by DFO Rewari. | Case approved from National Board of Wild Life (NBWL). KML file to be submitted by DFO Rewari. | DPR under scrutiny. | Case approved from National Board of Wild Life (NBWL). KML file to be submitted by DFO Rewari. | DPR under scrutiny. | Case submitted to CWC for interstate clearance | Case submitted to CWC for interstate clearance |

**identified Dams on River ghaggar , TANGRI and THEIR tributaries in District panchkula**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Dams** | **River** | **Location/ area benefitted** | **Live storage** | **Gross storage** | **Catchment Area** | **Top Width/Height/Length of dam** | **Availability of water** | **Size of reservoir** | **Approximate Cost** | **Total Land required (In acres)** | **Benefits** | **CCA (acres)/Villages benefitted** | **Remarks** |
| Kaushalya Dam | Kaushalya | Pinjore/ Panchkula District. | 1293.00  Ha M | 1368.10  Ha M | 77.00 Sqkm. | 30/34.00/ 1435 m | 18.4 Cs Non Monsoon/40.3 Cs Monsoon | 106.00 Ha | Rs.217.00 Cr. | 296 acres | Drinking water Pkl. Ground water recharge. | NIL | **Completed and supplying 18 Cusecs water to HUDA, Panchkula since Feb, 2013 or required water as per demand of HUDA.** |
| Dangrana Dam | Ghaggar | Near Village Dangrana/ Morni Block. | 2146.26  Ha M | 2495.72  Ha M | 121.00 Sqkm. | 6.0/86.00/ (B-550, T-870) m | 34.10 Cs (1-10 years) /23.40 Cusecs (51-60 years) | 96.01 Ha | Rs.63.69 Cr. in 2005 and now Rs.238.01 Cr in June 2017. | 143 acres | Water supply Morni Block, Irrigation, Flood & fisheries, To harness more water as capacity of Diwanwala dam not sufficient | NIL/4 No. | Considered in 19th meeting of GSC held on 11/07/2006 but not cleared for want of decision on Water Sharing Formula amongst basin states. Discussed in 28th meeting of GSC on 01.03.2019 and it was decided that decision will be taken after Mathematical Model studies by CWPRS Pune of entire Ghaggar basin and that issue regarding sharing of Ghaggar waters be resolved bilaterally by Punjab and Haryana. The Mathematical Model Studies final report by CWPRS Pune is in process whereas there is no progress on sharing of Ghaggar waters with Punjab . |
| Panchkula Multipurpose (Dewanwala Dam) | Ghaggar | Near Village Dewanwala/ Pinjore Block. | 4213.22  Ha M | 4575.72  Ha M | 238.00 Sqkm. | 6.00/61.00/ (B-550, T-870) m | 96.2 (1-10 yrs)/84.10 Cs (51-60 Yrs) | 282.80 Ha | Rs.132.70 Cr. in 2005 and now Rs.643.05 Cr in 2017. | 670 acres | Water supply Pkl/Pinjore, Irrigation, Flood & fisheries | NIL/ 3 No. | -do- Tentative Date of start- 01.02.2024 and Date of Completion- 31.01.2026 |
| Chhamla Dam | Ghaggar | Near Village Chhamla/ Morni Block. | 218.45  Ha M | 342.93  Ha M | 94.50  Sqkm. | 6.0m/33.00 m/ (B-50, T-407 m) | 16.09/8.31/3.84 Cusecs  16 July-30 Sept./ 1st Oct-31st Jan/1st Feb-15 July. | 31.60 Ha | Rs.20.41 Cr. in 2006 and now Rs.67.83 Cr in June 2017 | 238 acre ( 30 acre to be acquired, remaining Govt. Land) | Water supply Morni Block, Irrigation, Flood & fisheries | Few/2 No. | -do- Tentative Date of start- 01.02.2024 and Date of Completion- 31.01.2026 |
| Khetpurali Dam | Kadyani Nadi (Tributary of Tangri) | Near Village Khepurali/ Barwala Block. | 364.39 Ha-M to 132.81 Ha-M (91-100 years) | 403.13  Ha M | 10.81  Sqkm. | 6.0m/38.80 m/525.00 | 6.01 Cs/ 17.01 Cs (1-10 yrs) and 1.05/21.90 Cs (91-100 yrs)  Ist Nov-31st May/ 1st June-30th Oct. | 37.751 Ha upto FRL | Rs.43.90 Cr In 2018 | 113 acre. (4.5 acre Pvt land and remaining Forest) | Irrigation, Recharging, Tourism, Flood control | 10780 acre combined with Dudhgarh Dam | The project feasibility report given by WAPCOS and approval accorded by Govt vide No 2/28/2021-1IW dt 22.09.21. The project submitted to CWC for interstate clearance. After Interstate clearance DPR will be prepared and further clearances taken. The tentative date of start of work will be 01.01.2025 and completion will be 31.12.2027. CE/CWC along with his team visited site on 15.02.2022 regarding the project as it is with CWC. |
| Bhud Dam | Tangri (Ponta and Tallanwali nadi) | Near Village Bhud/ Barwala Block. | 736.845 Ha-M 212.660 Ha.M (91-100 years) | 794.901  Ha M | 23.60  Sqkm. | 6.0m/33.55 m/1151.00 m | 18.38 Cs/ 27.52 Cs (1-10 yrs) and 4.14/19.81 Cs (91-100 yrs)  Ist Nov-31st May/ 1st June-30th Oct. | 67.91 Ha upto FRL | Rs.107.75 Cr.  In 2018.  (B.C. Ratio 0.86:1) | 209 acre (25.50 acre to be acquired, rest is Forest land) | Irrigation, Recharging, Tourism, Flood control | 9525 acre/21 No. | The project feasibility report given by WAPCOS and approved by Govt. The same stands submitted to CWC for interstate clearance on 30.04.2021. After Interstate clearance DPR will be prepared and further clearances taken. The tentative date of start of work will be 31.07.2024 and completion will be 30.06.2027. CE/CWC along with his team visited site on 15.02.2022 regarding the project as it is with CWC. |
| Dudhgarh Dam | Kadyani Nadi (Tributary of Tangri) | Near Village Dudhgarh. | 321.945 Ha M  128.18 Ha M (91-100 Yrs) | 349.804 Ha M | 8.90 SqKm | 6.0m/33.00/370.00 m | 8.32 Cs/8.86 Cs  (1-10 yrs) and 3.17/4.20 Cs (91-100 yrs)  Ist Nov-31st May/ 1st June-30th Oct. | 32.626 Ha upto FRL | Rs. 47.00 Cr in 2018.  (B.C. Ratio 0.86:1) | 113 acre (4.50 acre to be acquired, rest is Forest land. | Irrigation, Recharging, Tourism, Flood control | 8176 acre acre (combined with Khetpurali Dam) | The project feasibility report given by WAPCOS and approval accorded by Govt vide No 2/29/2021-1IW dt 22.09.21. The project submitted to CWC for interstate clearance. After Interstate clearance DPR will be prepared and further clearances taken. The tentative date of start of work will be 01.01.2025 and completion will be 31.12.2027. CE/CWC along with his team visited site on 15.02.2022 regarding the project as it is with CWC. |

**Annexure-B**

**DETAIL OF CHECK DAMS AGRICULTURE DEPARTMENT**

1. **Detail of Dams constructed/ under construction at Shivalik Hills Area**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Year** | **District** | **Village** | **No. of Check dams**  **(in no.)** | **Capacity to conserve water (Ha-m)** |
| 1. | 2021-22 | Ambala | Pharouli | 01 | 4.8 |
| 2. | Korwakhurd | 01 | 5.0 |
|  | **Total** | | | **02** | **9.8** |
| 3. | 2022-23 | Ambala | Govindpur | 01 | 3.5 |
| 4. | Sontli | 01 | 4.8 |
| 5. | Sabhapur | 01 | 5.1 |
| 6. | Chajju Majra | 01 | 3.7 |
| 7. | Sabhapur | 01 | 3.7 |
| 8. | Yamunanagar | Taharpur Kalan | 03 | 0.4 |
| 9. | Pammuwala | 01 | 0.1 |
|  | **Total** | | | **09** | **21.30** |
|  | **Grand Total** | | | **11** | **31.10** |

**B) Detail of Dams constructed/ under construction at Aravalli Hills Area**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Year** | **District** | **Village** | **No. of Check dams**  **(in no.)** | **Capacity to conserve water (Ha-m)** |
| 1. | 2021-22 | Gurugram | Hariya-Heda | 02 | 3.4 |
|  | **Total** | | | **02** | **3.4** |
| 2. | 2022-23 | Gurugram | Sehjawas | 01 | 1.6 |
| 3. | Behalpa | 01 | 1.7 |
| 4. | Kherki | 02 | 3.1 |
|  | **Total** | | | **04** | **6.4** |
|  | **Grand Total** | | | **06** | **9.80** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Irrigation and Water Resources Department Haryana (Aravalli Hills)** | | | | |
| **Sr. No.** | **Name of Work/SITE** | **Year** | **Storage Capacity (Ha-m.)** | **Status** |
| 1 | Providing stone pitching & constructing spill way at various villages i.e. Bamanwas, Alipur, Musnoota and Nangal Kalia Bunds in Nangal Chaudhary Area | 2021-22 | 13.70 | Completed |
| 2 | Providing stone pitching & constructing spill way at various villages i.e. Meghot Hala, Bayal, Golwa and Jainpur Bunds in Nangal Chaudhary Area | 2021-22 | 16.70 | Completed |
|  | **Total** |  | **30.40** |  |
| 3 | Providing stone pitching and constructing spillway for conservation of surface runoff at Nayan 1 and 2 village bunds in Nangal Choudhary Area under Atal Bhujal Yojana. | 2022-23 | 0.48 | Completed |
| 4 | Providing stone pitching and constructing spillway for conservation of surface runoff at Niyamatpur village bund in Nangal Choudhary Area under Atal Bhujal Yojana. | 2022-23 | 0.29 | Completed |
| 5 | Providing stone pitching and constructing spillway for conservation of surface runoff at Lujota village bund in Nangal Choudhary Area under Atal Bhujal Yojana. | 2022-23 | 0.42 | Completed |
| 6 | Providing stone pitching and constructing spillway for conservation of surface runoff at Musnota 1 & 2 village bunds in Nangal Choudhary Area under Atal Bhujal Yojana | 2022-23 | 0.56 | Work in progress |
| 7 | Constructing of Check Dam in Hilly area of village-Musnota in Nangal choudhary area | 2022-23 | 84.00 | Work in progress |
|  | **Total** |  | **85.75** |  |
|  | **Grand Total** |  | **116.15** |  |

**LIST OF CHECK DAMS FOREST DEPTT (SHIVALIK HILLS)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Name of Division/ District** | **Year of construction** | **Name of Site** | **Category** | **Storage capacity**  **(Ha-m)** |
| 1 | Panchkula/M orni-Pinjore | 2021-22 | Maggu Wala Khala | Earthen | 5.59 |
| 2 | 2021-22 | RCC Darara, Chapoli | RCC Dam | 2 |
| 3 | 2021-22 | WHS Darara | WHS Dam | 2 |
| 4 | 2021-22 | WHS Hathiya | WHS Dam | 3 |
| 5 | 2021-22 | Chillan Wala Choe | Bolder Masnory with RCC | 0.76 |
| 6 | 2021-22 | Jyanti Mata Choe | Bolder Masnory with RCC | 0.24 |
| 7 | 2021-22 | Sukha Khala, C-108, Chandi | Bolder Masnory with RCC | 3.45 |
| 8 | 2021-22 | Alongi Wala Choe R-70/C-5 | RCC WHS | 2.19 |
| 9 | 2021-22 | Nichla Wala Choe R-70/C-5 | RCC WHS | 2.6 |
| 10 | 2021-22 | Belwala Choe C-97 | Earthen WHS | 11.01 |
| 11 | 2021-22 | Jhodiwala Choe Assrewali PF | Earthen WHS | 6.06 |
| 12 | 2021-22 | DAV School Wala Choe | RCC Dam | 0.3 |
| 13 | 2021-22 | Langa Wala Choe | WHS Dam | 6.74 |
| 14 | 2021-22 | Bhagindi Wala Choe | WHS Dam | 7.3 |
| 15 | Yamunagar | 2021-22 | Kathgarh PF | Dry Stone Check Dam | NA |
| 16 | 2021-22 | Dhanaura Sector 4 | Dry Stone Check Dam | NA |
| 17 | 2021-22 | Dungekhala Salempur Kohi | Silt Detention dam | 1 |
|  |  |  | **Total** |  | **54.24** |
| **Under Construction** | |  |  | | |
| 1 | Panchkula/M orni-Pinjore | 2022-23 | DP-235 C-2 | Stone Masonry with RCC WHS | 8 |
| 2 | 2022-23 | Devi wala Choe R-71 C-8 | WHS Dam | 11.05 |
| 3 | 2022-23 | Chamer Choe DP-235 | Cement Stone Masonry Dam | 6.74 |
| 4 | 2022-23 | Nada Wala Choe R-70 C-5 | WHS Dam | 8.6 |
| 5 | 2022-23 | C-47 C-50 Khare ka Khala | WHS Dam | 17.02 |
|  |  |  | **Total** |  | **51.41** |

LIST OF CHECK DAMS FOREST DEPTT (ARAVALLI HILLS)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Name of Division/ District** | **Year of construction** | **Name of Site** | **Category** | **Storage capacity**  **(Ha-m)** |
| 1 | Gurugram | 2021-22 | Gurugram | Ghata Cement Structure | NA |
| 2 | 2021-22 | Gurugram | Ghata Cement Structure | NA |
| 3 | 2021-22 | Gurugram | Ghata Cement Structure | NA |
| 4 | 2021-22 | Sohna Range | Mandawar WHS | 19.29 Ha- m |
|  |  |  | **Total** |  | **19.29** |