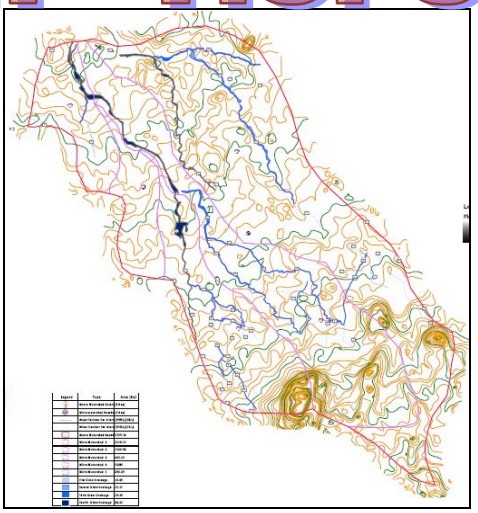
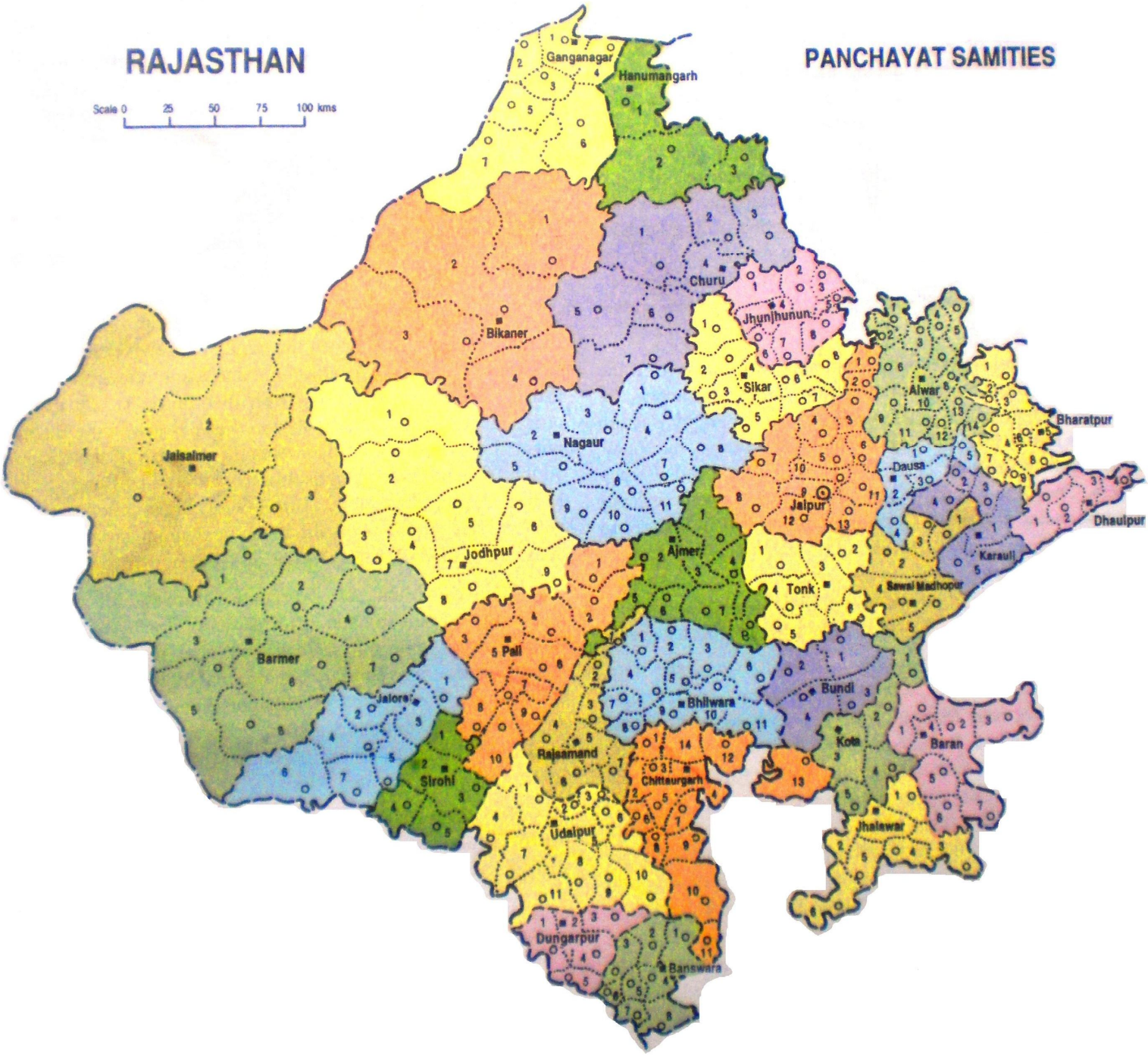
IWMP III - P.S. SIROHI



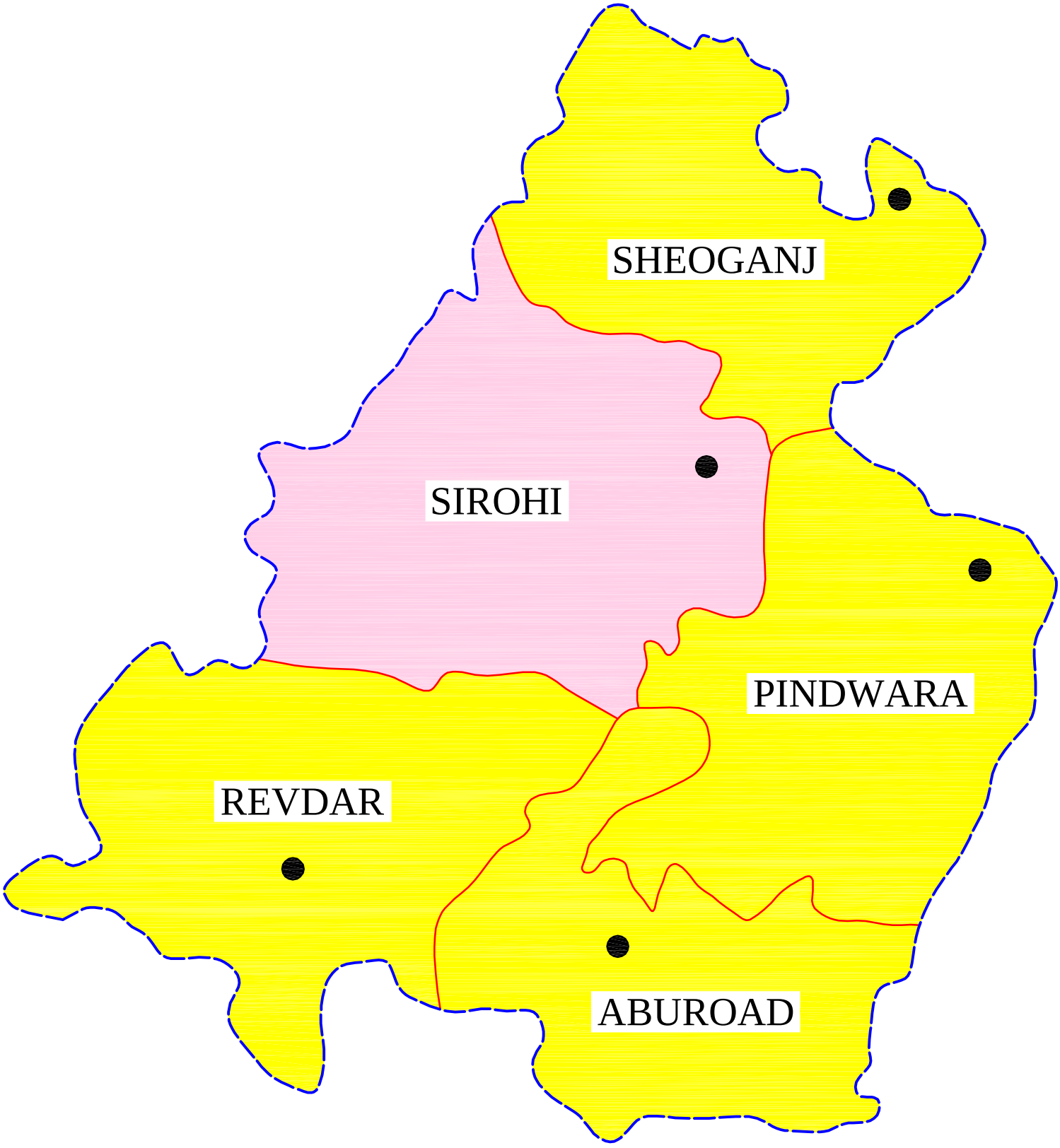
DETAIL PROJECT REPORT

NAME OF WATERSHED	**:-**	**SIROHI (IWMP III)**
MACRO/ MICRO	**:-**	**6/1,2,3,4,5**
GEOGRAPHICAL AREA	**:-**	**5475 Ha.**
PROPOSED AREA	**:-**	**5475 Ha.**
FOR TREATMENT	**:-**	**5475 Ha.**
TOTAL AMOUNT	**:-**	**1016.48 LAC.**
WATERSHED SCHEME	**:-**	**657.00 LAC.**
OTHER SCHEME	**:-**	**359.48 LAC.**
TOTAL COST PER HACT.	**:-**	**0.19 LAC.**
W/S COST PER HACT.	**:-**	**0.12 LAC.**
PANCHAYAT SAMITI	**:-**	**SIROHI**
DISTRICT	**:-**	**SIROHI**

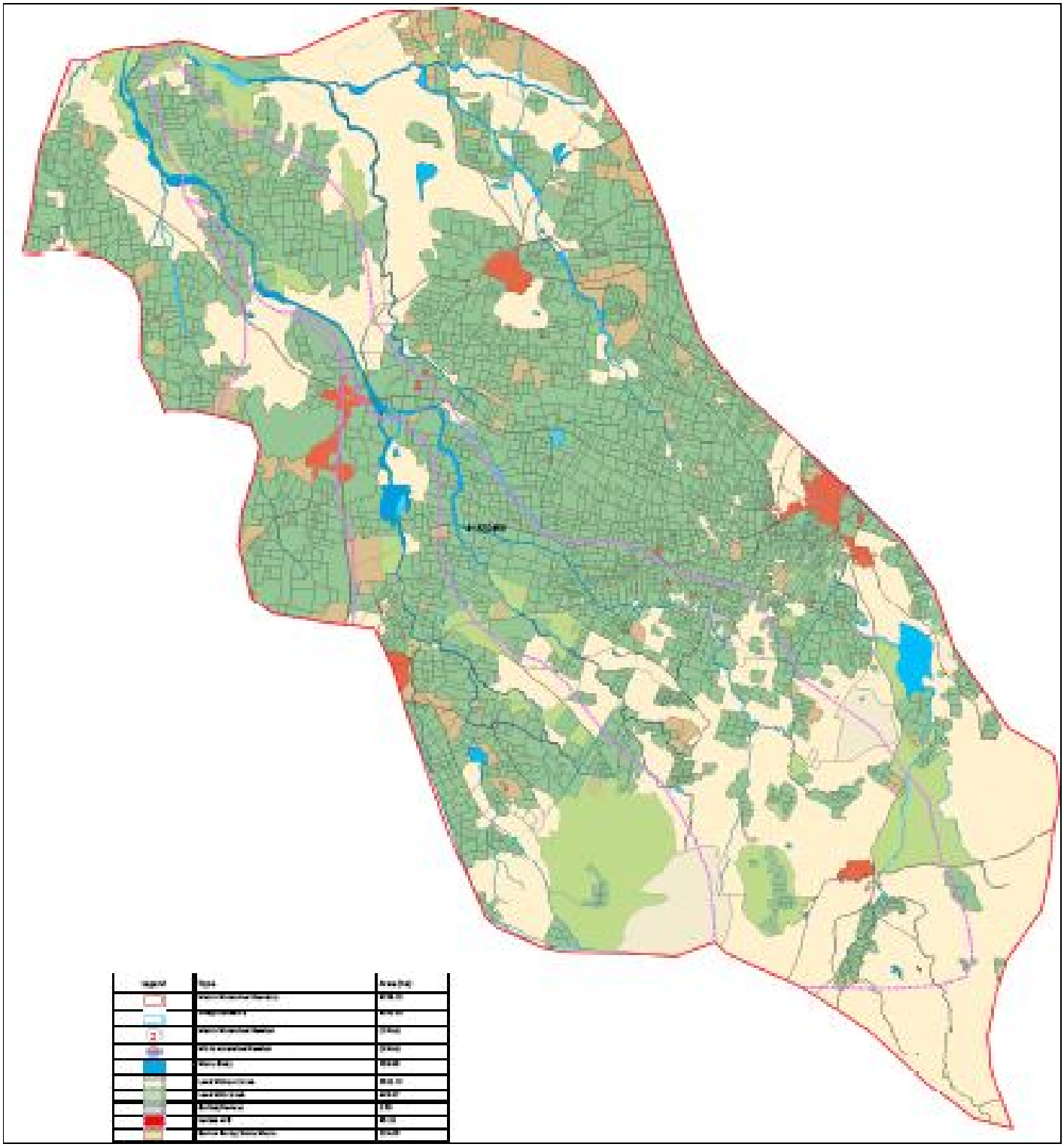
ASSISTANT ENGINEER
PANCHAYAT SAMITI SIROHI
DISTT. – SIROHI (RAJ.)


RAJASTHAN
PANCHAYAT SAMITIES
Scale 0 25 50 75 100 kms
Ganganagar
Hanumangarh
Bikaner
Churu
Jhunjhunun
Sikar
Alwar
Bharatpur
Dausa
Jaipur
Dhaulpur
Karauli
Sawai Madhopur
Tonk
Nagaur
Jaisalmer
Jodhpur
Ajmer
Barmer
Pali
Jalore
Sirohi
Rajsamand
Bhilwara
Chittaurgarh
Udaipur
Bundi
Kota
Baran
Jhalawar
Dungarpur
Banswara

INDEX MAP
DISTRICT - SIROHI



INDEX MAP – P.S. SIROHI
DISTT. – SIROHI (RAJ.)



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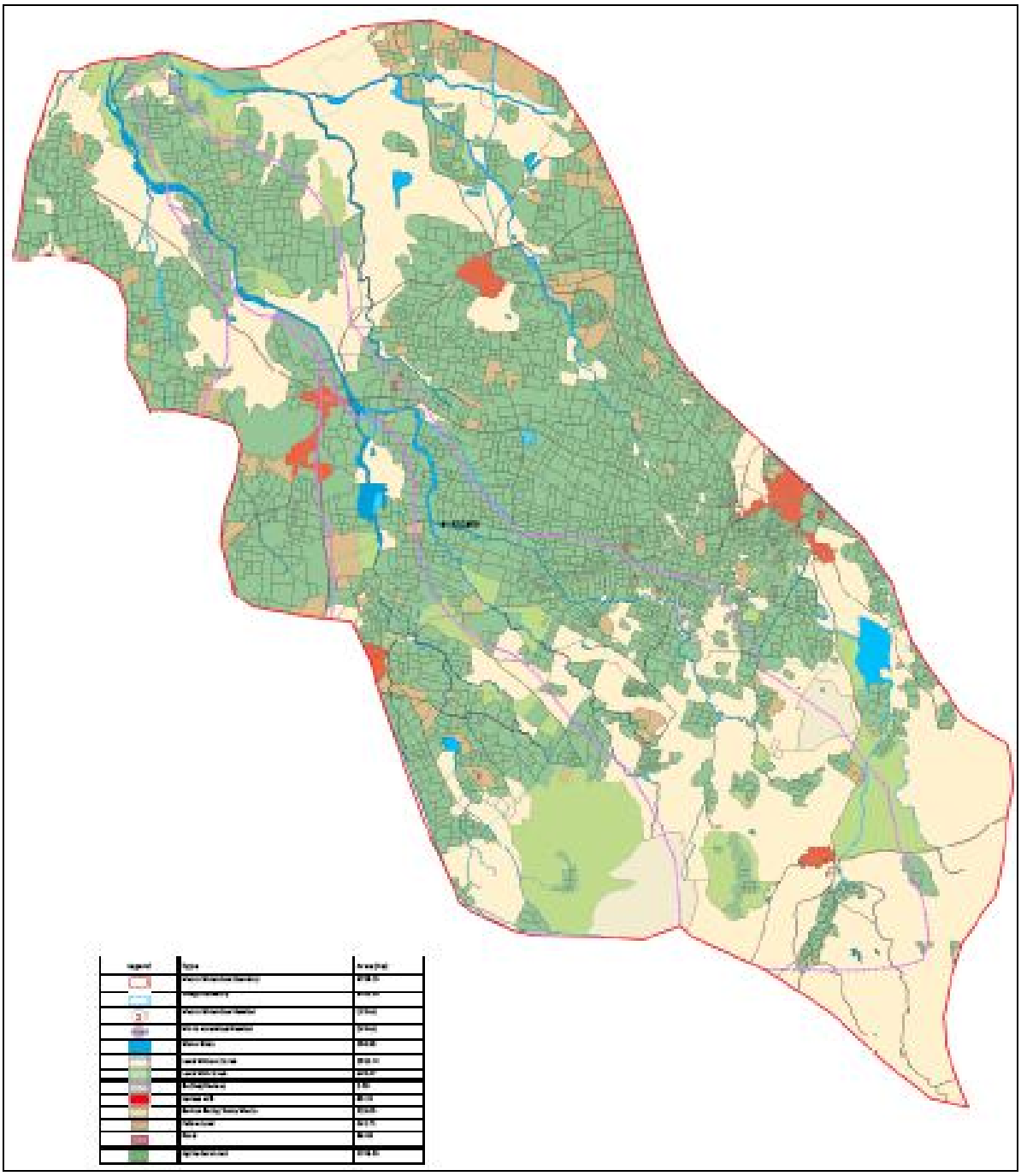
Project at a Glance

1. Name of watershed	**:**	**SIROHI IWMP – III / 2010-11**
2. Total watershed area	**:**	**5475 Ha.**
3. Project Area	**:**	**5475 Ha.**
4. Macro watershed number	**:**	**6**
5. Micro-watershed number	**:**	**1,2,3,4,5**
6. Gram Panchyat	**:**	**Mohabbat Nagar, Phugni, Tawari, Jaila**
7. Villages in watershed area	**:**	**Mohabbat Nagar, Phugni, Noon, Tawari, Chaduaat, Fachariya, Jaila, Falawadi**
8. Panchayat Samiti	**:**	**SIROHI**
9. Tehsil	**:**	**SIROHI**
10. Total Population of w/s Area	**:**	**13206 No**
11. Total No. of Families	**:**	**2701 No**
12. Percentage of SC/ST Population:		**20.65 % & 1.99 %**
13. Percentage of BPL Families:		**13.62 %**
14. Name of project	**:**	**Integrated Watershed Management Program**
15. Total Amount	**:**	**996.28 Lacks**
16. W/S Scheme	**:**	**657.00 Lacks**
17. Other Scheme	**:**	**339.28 Lacks**
18. Cost per Ha	**:**	**0.18 Lac.**

Watershed Map



1. Introduction:

Drought and consequent famine has become a recurring phenomenon in Rajasthan as with few other regions of the country. Despite rich heritage Rajasthan is one of the poorest states in the country. The backwardness and the hardship that the people face to cope up with the environmental adversity, the inadequacy and the uncertainty of food supply due to disasters make it difficult for the people to take the advantage of various development schemes.

In order to combat the frequent recurrence of drought in the States, Drought Prone Area Programme (DPAP) was introduced during the year 1975, as a Centrally Sponsored Scheme (CSS) with matching state share of 50:50 and adopted the watershed approach in 1987. The Drought Prone Area Programme concentrated on non-arable lands. Drainage lines for in-situ soil and moisture conservation, agro-forestry, pasture development, horticulture and alternate land use were its main components. Integrated Wasteland Development Programme (IWDP) was introduced during 1992 with 100% Central assistance.

The Indian government accords high priority to integrated watershed management programs, especially in rain-fed and drought-prone areas. The department of Land Resources (DoLR) has been implementing three area development programmes namely- Drought Prone Area Programme (DPAP), Desert Development Programme (DDP) and Integrated Wasteland Development Programme (IWDP) since 1995. From April 2008, these three programmes has been Integrated into one comprehensive scheme based on Common Guidelines, framed by National Rain fed Area Authority (NRAA). The modified scheme is known as Integrated Watershed Management Programme. The central government has initiated integrated watershed management program in collaboration with the state government in semi arid region in the country.

Resource degradation has an adverse impact on human welfare. Degraded environment tends to affect livelihood of the poor and particularly of women adversely. Generally the poor depends upon the common property resources and degradation of the CPR's affects the consumption levels, nutrition and livelihood of women adversely. The program believes on the ability of communities to initiate and sustain collective action often depends on internal socioeconomic characteristics and the biophysical and socioeconomic setting. This program also acknowledges the potential of watershed development in dry land areas, aiming to strengthen the ecological and institutional foundation to strengthen the rural livelihoods.

The program provides opportunity to Asst. Engineer (Watershed) P.S. Sirohi to develop 5475 ha through Department of Land Resources and Watershed, Zilla Parishad, SIROHI. The innovative approach attempts to address the critical issues of natural resource management and set in example of model practices for scaling of such initiatives. Keeping in view the watershed-based development approach, the project will prepare a detailed project report to guide the implementation process. The project would be a unique opportunity to work on issues of ecological security and improvement in the well being of the different sections of the society and will guide the planning, implementation and the capacity building aspects.

The project will guide an intervention, which is anchored on people's engagement at various levels, and is based on the specific characteristics of the socio-economic-ecological settings, to foster a healthy relationship between livelihoods and natural surroundings and offer a stable economic opportunity. In translating into action, it is essential to realistically assess the potential of the farming system, common and private resources, and soil, water, biodiversity and nutrient capacity. The scope of the desired intervention is in terms of bringing equilibrium between supply and demand both quantitatively and qualitatively, so as to develop a balance between appropriation and production needs. Such a realistic assessment and movement towards a balanced land use and livelihoods strategies would significantly depend on the strength and character of the institutions of collective management and regulation, matched by consonant policies.

2. About Sirohi :

Sirohi is situated between $72^0$29'0"E to $72^0$57'0" E and $24^0$35'0" N to $25^0$03'0" N and has an Average elevation of 140 mts from mean sea level. The Northern boundary is P.S. Sheoganj and on the East by P.S. Pindwara, on the South by P.S. Revdar and on the West by Jalore Distt. are surrounded in other sides. The topography is both undulated as well as Semi Hilly. On one side it is surrounded by plain and good forest reserve on the other hand there lies a huge patch of land with Maximum Slope and degraded Ecosystem. With an program to Implement watershed development in the region, 5475 ha of land has been demarcated, to treat the eco-fragile land and improve the livelihood pattern both in terms of food and fodder through decentralized governance mechanism.

The Integrated Watershed Development Program aims to address the critical issues of natural resource management and set in example of model practices for scaling of such initiatives. Through this program implementation in both public and private land has been focused. Productivity enhancement and livelihoods shall be given priority along with conservation measures. Resource development and usage will be planned to promote farming and allied activities to promote local livelihoods while ensuring resource conservation and regeneration.

Capacity Building and training of all functionaries and stakeholders involved in the watershed programme implementation would be carried out. The watershed development process would be synergized with the employment generating programmes such as the Mahtma Gandi National Rural Employment Guarantee Scheme (MNREGS).

Project would include in the formation of SHGs, User groups, village level committee and Watershed Committee. The implementation would include the involvement of the groups for better implementation, participation and transparency.

3. Watershed Development in Sirohi :-

Watershed Development programs have become the most important tools for promoting growth in dry-land areas of India. People in the arid and semi-arid regions of Rajasthan practice innovative methods of harvesting rainwater for drinking and agricultural purposes by building embankments since ages to meet water requirement for various purposes. Various Govt. policies and different agencies are working in the field of watershed focusing on watershed management, natural resource management, drought mitigation, improving drinking water supply, soil conservation, etc. A range of activities was undertaken to harness rainwater. The structures ranged from earthen field bunds to cement and concrete structures, plugging water flow in small streams and structures to harness the flow from whole watersheds or sub-river basins. With all these interventions, the main objective was to check surface water runoff, impound water and recharge groundwater.

Watersheds connect land units through flows of water, nutrients, and sediment. However the patterns of interaction among these components is highly complex with the landscapes under constant change, emerging as the outcome of dynamic and variable ecological processes and disturbance events, in interaction with human use.

The total Geo-graphical area of Sirohi Tehsil 117500 Ha divided in 130 micro w/s, out of which ---------- corresponding----- Ha areas has been treated so far.

According to IWMP-III , 8 villages of Sirohi Tehsil have been identified falling under the watershed comprising of 5475 Ha. Erratic rainfall and degradation of natural resources has brought up the concern in controlling and developing the resources, for which the Tehsil have been focused upon as the drainage lines opens into Krishnawati River Basin. IWMP-III is also an initiative of National Rural Livelihood Mission which basically focuses on watershed development. This program will not only develop the common land but would also benefit the farmers by working in their private land. The program would focus on livelihood enhancement focusing in promoting best practices in agriculture as well as for animal husbandry.

Groundwater recharge depends on geo-hydrological parameters so it becomes difficult to assess their actual impact. This becomes even more difficult when the intervening agency is not aware of these technical parameters. Keeping on mind about the different parameters on ground water recharge survey based on geo-hydrology has been emphasized to avoid the difficulties. Impact of watershed on well and open well irrigation is assessed in terms of wells and the changes in the depth of the water table.

The programme also intends to conduct capacity building programs at various levels to sensitize the community in effective implementation of the program. The trainings would focus on various aspects including strengthening of village and Panchayat level institutions, SHGs, exposure visits on NRM, Institutions and Volunteerism. The trainings would also be a platform in setting up and facilitating long term processes that bring different groups into constructive engagements, dialogue and decision making towards good governance of the landscape.

4. **Conceptual Build-up: Strengthening Watershed Development Approach**

Rural poverty is mostly associated with recurrent occurrences of drought, poor maintenance and degradation of natural resources. Degradation of land and water resources is one of the most serious problems being faced by India today, particularly in the semi arid areas, and Sirohi is no exceptional. It has led to adverse economic and ecological consequences in contemporary rural society, where survival, sustenance and growth are intimately linked to the health and productivity of the surrounding natural resources. In the recent past, several interventions were made to reduce poverty through drought-proof technologies. Transition in climate and degradation of Natural Resources is one of the reasons for Watershed Development and has huge prospects in transforming rural lives and looks into holistic process of:

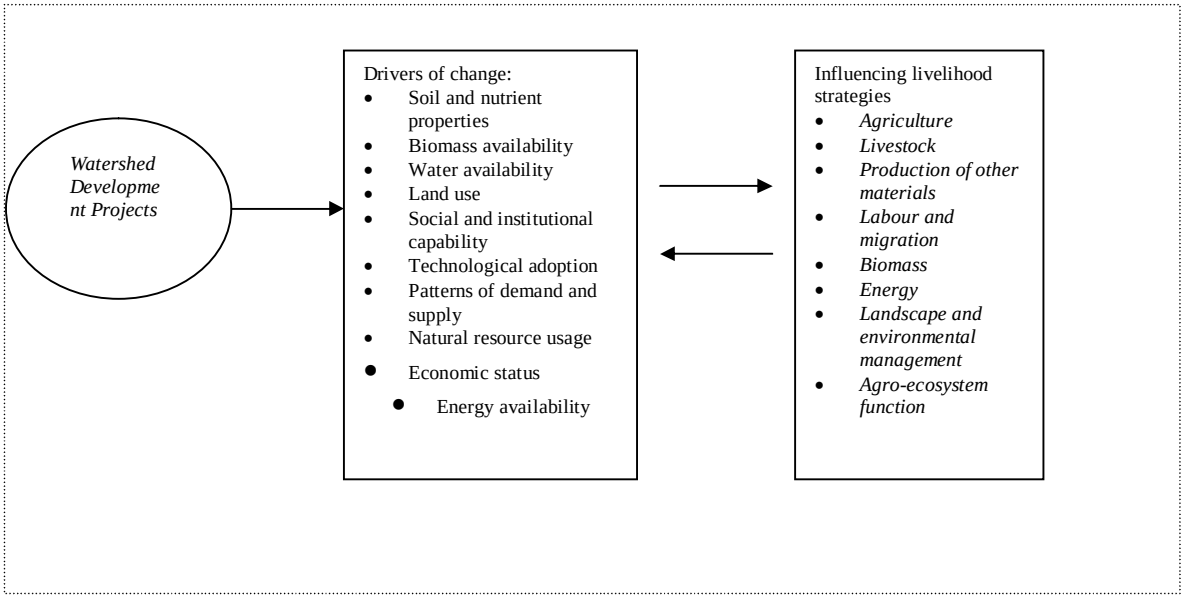
- Introducing new knowledge and technology.
- Appreciating, maintaining and adapting traditional knowledge.
- Building effective exchange systems through a diverse set of institutional arrangements.
- Building and strengthening specific, responsive, accountable and adaptive systems.

Though in general 'guidelines' and conceptual documents incorporate these elements, however specific focus on only one or two components have not helped in fulfilling the major objectives of watershed development programs. In this respect specific attention needs to be given to further strengthen watershed development approach. Some of the key issues have been highlighted for these purposes are:

a) Addressing comprehensively the micro-drivers of change:

Watershed development projects have huge potential to address the micro-drivers effectively. However the degree to which the various drivers in the three major components of social-economic-ecological are comprehensively addressed in watershed development projects leaves much to be desired. The degree to which

these drivers are properly understood and incorporated in watershed management plans will directly influence how much the project potentially is able to influence the various aspects of livelihood strategies.



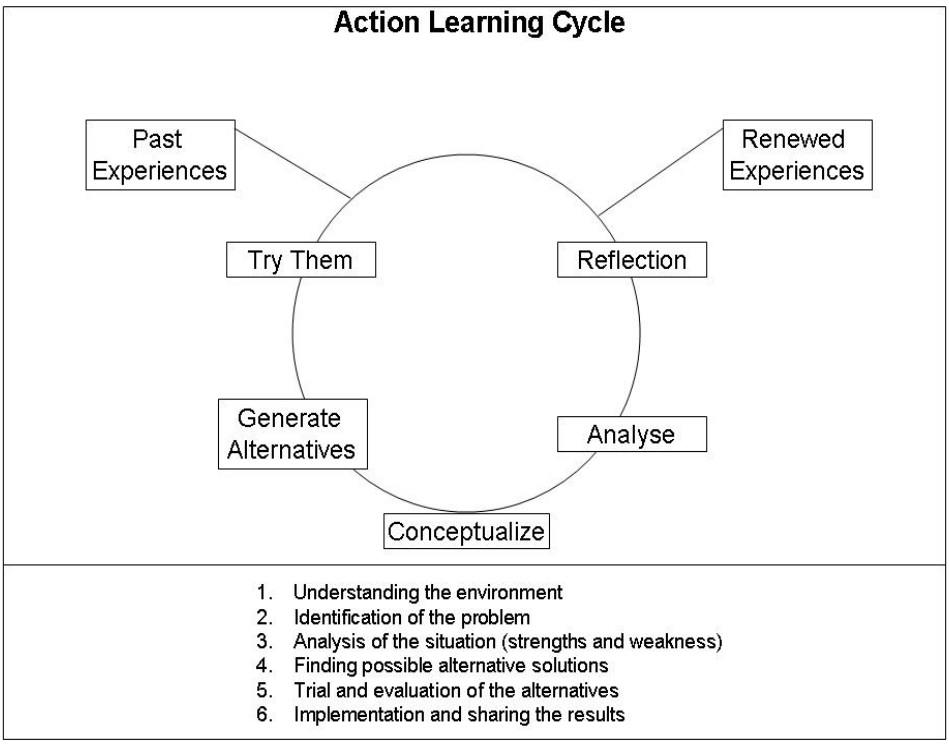
Another important aspect is comprehensively looking both the supply side enhancement measures and the demand side management measures in watershed development programs. Only focusing on the supply side enhancement measures have not helped the communities to put up sustainable and judicious use of the resources created. Demand management through better socio-institutional capability, technological adoption etc., would need to be properly incorporated in the project design to impart sustainability to resource management practices.

b) Watershed development and adaptive management

Watershed management has several characteristics which include:

- Multiple stakeholders with multiple interests.
- Complex ecological systems with a variety of land use.
- High level of uncertainty and many unknown factors.

This makes watershed management a complex process requiring a learning approach based on a process of experimental decision-making and monitoring. Adaptive management has been developed to address these characteristics and is an approach for managing the complex systems based on incremental, experiential learning and decision making, supported by active ongoing



monitoring and feedback from the effects of outcomes of decisions'. It involves the process of building social capital among stakeholders for collaboration and learning, and knowledge sharing among group members.

c) Watershed development with an Integrated Landscape Restoration Program

Watershed projects should be seen as means to put in sustainable land-use planning. Landscape restoration approach is a process that aims to regain ecological integrity and enhance human well being in degraded landscapes. Key aspects of LRA are that it focuses on:

- Restoration decision on how best to restore functionality, that is, the goods, services and processes that the different components of landscape delivers.
- It recognizes that neither the solutions to the complex land use problems nor the outcomes of a particular course of action can be predicted accurately, especially as ecosystems nor land-use patterns change over time.
- It recognizes the need for multi-solution approach to provide the practitioners with sufficient flexibility to address the complex issues.

Landscape constitutes of different components and the pattern in which these components are distributed makes each landscape a unique one. Based on the location specificities landscape can be classified as agricultural landscape, pasture landscape, forest landscape, or even more. In improving watershed management approach the value of this framework is not only in clearly envisioning specific restoration plans for each components but also in establishing the links with different landscape component and its contribution for specific landscape restoration.

6. Project Purpose, Objectives and Outcomes:

The broad objectives of the project are:

a. Strengthen the capacity of village institutions and Panchayats to implement and support watershed development plan.
b. Restore functionality of different landscape components comprehensive approach to conservation to deliver intended goods and services.
c. Restore ecological integrity by increasing flow of nutrients, water and biomass across the landscape with improved biodiversity and stabilized production systems.
d. Increase household incomes through strengthening current livelihood strategies, introducing new ones and diversifying sources of income.

In this context, the purpose of the project would be:

- To Assist village communities in obtaining tenure on public land or usufructs and initiating strengthening systems of collective management and governance over land and water, in a contiguous area to draw on the advantages of its ecological and social structure.
- To increase the availability of biomass through Re vegetation of the marginal lands and increased availability of surface and ground water through soil and moisture conservation and retention measures.
- To assist communities in effectively integrating animal husbandry, agriculture and natural resources management and in regulating the demand for biomass and water through rules, regulations and mechanisms evolved by community institutions at village and inter village levels
- Landscape planning and management brings the conservation fully into the rural development discourse by highlighting the importance of ecosystem services in supporting continued agricultural production. It emphasizes both the need and the opportunity to foster synergies among conservation, agricultural production, livestock production and rural livelihoods.
- To strengthen the village level and Meso - Level governance of biomass and water resources by village communities, including involvement of Panchayats in addressing natural resource management along with other initiatives of the Government, Multilateral agencies.
- To promote partnerships between the village communities, academia, civil society and district administration that collectively envision, develop and implement land use plans for the conservation and judicious use of natural resources.
- To promote convergence by implementing watershed works in private land through different ongoing development schemes.

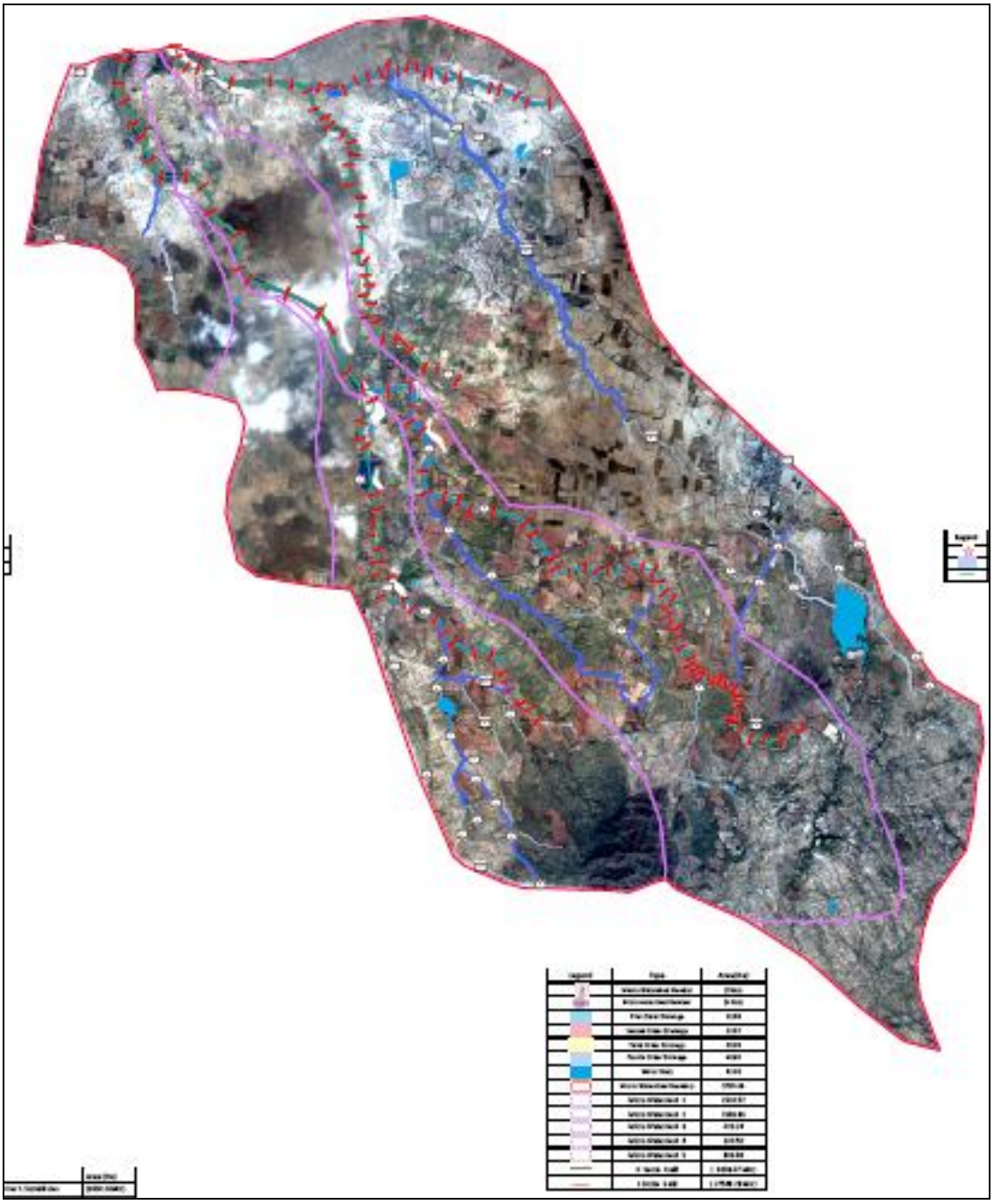
Implementation of the project for seven years would result in the following outcome:

- Lack of participation makes the implementation of watershed projects very ineffective therefore strong collective management by village institutions over their landscape, with appropriate tenure arrangements, in contiguous areas in each location. As the setting and level of discussion in each of the institutions would vary, processes on appropriation and production would be at different levels of maturity and intensity. However, processes on integration of various components of the ecosystem, an assessment of their status and a proactive course of action would be evolved by the communities within and across habitations.
- The biomass and biodiversity of common lands would be improved, and the availability of surface as well as ground water would be increased.
- Village communities would be moving towards effective integration of animal husbandry, agriculture and natural resources management and regulating the demand for biomass and water through rules, regulations and mechanisms evolved by them at village and inter village levels.
- Village level and Meso - Level governance of biomass and water resources by village communities, strengthened along with the involvement of Panchayats, government, civil society, other agencies etc.
- Landscape planning and management engages different actors (scientific experts, professionals and village communities) in an informed, iterative and participatory planning process. This planning process through understanding alternative future scenarios helps to encourage informed discussions of alternatives. The discussion leads to a landscape plan that is adaptive in terms of implementation, monitoring and learning.

7. Area Details:

7.1 Geographical Profile:

Sirohi is situated between 72^{0}29'0"E to 72^{0}57'0" E and 24^{0}35'0" N to 25^{0}03'0" N and has an Average elevation of 140 mts from mean sea level. The Northern boundary is P.S. Sheoganj and on the East by P.S. Pindwara, on the South by P.S. Revdar and on the West by Jalore Distt. Sirohi District falls in the Krishnawati River Basin.



7.2 Geological Profile:

The main rock types found in this place is Migmatite, Composite Gneiss, Granite, Granite Gneiss, Biotite Schist and Calc-silicates. The minerals found are mainly quartz, feldspar, pyroxene, amphibole, biotite, apatite, muscovite, fluorite, tourmaline etc. The presence of fluoro-apatitie and the presence of tourmaline is the main indicator for presence of fluoride which is being dissolved in ground water. The soil in this area is also contaminated in terms of fluoride due to presence of fluoride minerals in rocks.

Grassland Ecosystem

Grassland ecosystem is a type of terrestrial ecosystem. Grasslands occupy a comparatively huge stretches of Landscape approx. 19.70% of total geographical area under permanent pastures. These grasslands are at degradation stage of tropical dry deciduous forests. Both types of grasslands are found in the district. In Sirohi area, Dicanthium-Cenchrus-Lasiurus Grassland is found.

In Sirohi the Rainfall ranges between 196-1234 mm, which is favorable for the former grassland type, the temperature is also very high. The average annual Temperature ranges between 35-48°c.

Table 4: Grass species present in the area

Locality	Annual Species	Perennial Species
Stony sites, hills slope	*Arustedo depressa :* *A. Adrean rions Melano elenchrun*	*Cenchrus citigera* *Cenchrus ciloris* *Heteropgon contracts* *Sehima Nonorm* *Chrysopogn - felius* *Evemopogan foveloty*
Depression, plateau valley, deep soil	*Aristed ship* *Chlores uergata* *Eragrotis sp*	*Dieanthlime annualatc* *Eremopoganrh* *Cynodan dactylan* *Bothriochloa.*

Flora &Fauna -

In hilly area, where forest cover is better, Apluda mutica is seen growing in abundance. This is an annual tall grass that can grow under partial shade up to some extent. Along moist shady streams, Ammonia pentandra, Bergia ammonites, Cyprus rotundas etc grass can be seen.

In the plains, Prosopis juliflora, Acacia nilotica, Azadirecta indica, Acacia lucophloea, Bateau monospermous, Anogeisus pendula and related species, Date Palm along the drainage lines etc are found in abundance. It is also found that where Prosopis forms the green cover in the project area, yet acts as a problem for the community as seen to grow profusely along the road sides capturing road and making it difficult to pass by, also creates problem by blocking the drainage lines.

The primary consumers are the herbivores feeding on grasses comprising mainly of cow, buffalo, sheep, hare, blue-buck, mouse, millipedes, centipedes, ants, grasshoppers, beetles, babbler, crow, Bulbul, etc. Besides, secondary consumers are those who are feeding on herbivores. They are hyena, jackal, fox, lizard, snakes, mongoose, etc. Hawks feed on small secondary consumers, thus occupying the tertiary consumers. Decomposers active in decay of dead organic matter of different life forms are fungi like Mucor, Aspergillus, Penicillium, Cladosporium, Rhizophus, Fusarium etc., and some bacteria and actinomycetes. They bring about the mineral back to the soil, thus making them available to the producers.

Pond/Reservoir Ecosystem

A pond as a whole serves a good example of a fresh water ecosystem. Sirohi is a drought prone area. Therefore, traditionally, ponds/reservoirs/water bodies have been developed at many places to meet the water requirement/availability for domestic consumption, irrigation use as well as livestock drinking during stress period mostly. Coincidentally, these water bodies provide very good aquatic

habitats. Terrestrial animals like migratory birds also find solace for their breeding during winter. These ponds are a self-sufficient and self-regulating system. They are very rich in basic inorganic and organic compounds, such as water itself, carbon dioxide gas, oxygen gas, calcium, nitrogen, phosphates, amino acids, humic acid, etc. Some proportions of nutrients are in solution state but most of them are present as stored in particulate matter as well as in living organisms. Various organisms that constitute the biotic component like Potamogeton, Hydrilla, Vallisneria, Utricularia, Azolla, Lemna, Oscillatory, Anabaena, Chlamydomonas, Spirula etc. A few insects and both small and large fishes are found in various ponds or lakes.

Non-perennial River Ecosystem

Major Rivers of Sirohi is Krishnawati River. The River which was perennial 10 years ago has become non-perennial now. Numerous small as well as large dams have been constructed along the river. Not only this stored water provide water for irrigation and drinking purposes of the people, the reservoirs act as pond / lake ecosystem as well. Ecologically also, these water systems are very important. Several aquatic life forms emerge during the period of water-flow, but as soon as they dry up in winter and summer, the aquatic life suddenly disappears. Commonly occurring life forms are:

As they drive up, the entire tract of their courses glows with the shinning of sands. Large deposits of gravels and pebbles also occur along the banks. The riverbeds of some of these rivers are predominantly composed of hard rocks, exposed and literally dead. Though some small life forms occur sporadically where the stagnant water is found along the course.

Cropland Ecosystem

Cropland ecosystems are artificial or man-engineered, where, in order to obtain more food, cloth, timber, medicines and other useful products, man becomes responsible for the replacement of natural systems. To secure maximum production, man makes much planned manipulations in the Physico-chemical environment. These include addition of fertilizers to soil, use of chemicals for disease control, proper irrigation practices etc. Thus, a cropland ecosystem is an artificial system aimed primarily to grow a single species of one's choice. We have ecosystems of dominant crop species like Bajara, Maize, Til, Wheat, Mustard, Vegetables, etc. under suitable conditions of their growth and yield. It is generally argued that in a natural ecosystem, the nature maximizes for gross production, whereas in an artificial ecosystem, man maximizes for net production. In a cropland ecosystem, there is not necessarily an increase in the total dry matter production of the whole plants, but generally most of the production goes into grain and less into leaves, stems and roots. Thus, in agriculture, there is an objective to achieve high rate of production (P) of readily harvestable products with little standing crop (B) left in the field for accumulation or we may say that there is a high P/B efficiency. Nature, on the other hand, follows just the reverse efficiency, i.e. a high B/P ratio where the standing crop is generally accumulated to its maximum.

- Abiotic Component

  These include the climatic conditions such as rainfall, temperature; wind velocity, frost, hail, humidity etc. are suitable for the above mentioned crops, especially maize. Biotic Component The various living organisms in the food chain occur as follows:

  - Producers:

    The dominant plant species would naturally be Zee Maize, Urad, and Till. A number of weeds like Cynodon dactylon, Launnea nudicaulis, Euphorbia hirta, Cyprus rotundas, Digitaria Spp., Alysicarpus spp. also contribute to primary production of the field.

  - Consumers:

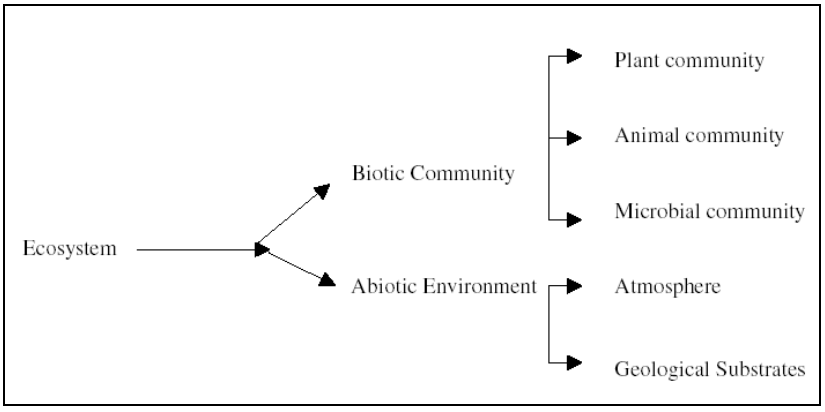
Primary consumers are herbivores represented by a variety of animals, big as well as small. The smaller animals include chiefly the insects as aphids, trips, beetles, etc. which feed and lay their eggs on maize leaves. Larger animals are rabbits, rats, birds and man feeding on leaves, flowers and fruits of maize.

Secondary consumers are carnivores like frogs and some birds that eat insects.

Tertiary consumers are carnivores like snakes and hawks which feed on the secondary consumers: frog s and small birds. Decomposers are microbes present in soil as well as air that decompose the dead organic matter of plants and animals. These are chiefly bacteria, Actinomycetes and fungi responsible for decay, decompositions and humification making the minerals available again to the producers.

The pattern of interconnectedness among different components of ecosystem:

Every ecosystem comprises of two major components: Abiotic and Biotic. They are intricately inter-twined and dependent on each other, and ensure a delicate but complex ecological linkage leading to nutritional and energy flow through various trophic levels both within and between ecosystems. The pattern of inter-connectedness among different components of ecosystems therefore, lies in its explicit recognition of complexity, interaction, functional processes and change over time. Structurally, different components of ecosystems can be represented as follows:



Functionally, there is a constant exchange of matter and energy between the physical environment and the living community.

Interdependence of different Ecosystems

Problems faced from regeneration point of view

- Laws of wild life that broke food chain.
- Repeated drought
- Poor natural regeneration.
- High rate of Soil erosion by water.
- Recycling of nutrient
- High biotic pressure.
- Shallow soil especially in tableland area.
- Impervious basalt strata, poor recharging of underground water table.
- Soil compaction due to trampling
- Over grazing
- High run off due to slope & less vegetation.
- Successional degradation of common land, grass land & forest land.
- Problem of weeds, and exotics Prosopis juliflora, Acanthospermum, Xanthium strumarium, Parthenium spp.
- Poor condition of grasslands. Presence of grasses of lower serial stages.
- Lack of proper management at community as well as govt. levels
- Poor water regime at upper strata of soil.

Degradation level of vegetation is a high, old tree of Madhuca indica were harvested nearly two decades back for making lime & Sterculia urens for gum tapping.

Problems of Grasslands

Private "Grass bids" are common in the area where good quality of fodder grasses occurs. These bids can be used for seed collection for launching the seed sowing activities.

Problems of Bids are as follows:

- Over grazing
- Lack of Nitrogen fixing legumes
- High run offs
- Trampling
- Creation of unproductive blanks sporadically due to over grazing
- Water borne soil erosion
- Food seed production uncontrolled grazing is responsible for poor seed production
- Poor regeneration or no regeneration of grasses
- Retrogressive succession due to high biotic pressure
- Lack of proper input & management practices

Grazing lands and pasturelands are suffering from heavy grazing and trampling. Sparse & flattish tillers of perennial grasses are visible during winters & summers. Flatness of tiller is an indication of heavy trampling Erectness of grass culms is an evidence of non trampling stage, which is generally not seen in mat of pastures.

Soil Erosion

Soil of Sirohi is moderately to severely eroded mainly by rivers and Nalla, mostly during the rainy months. Besides, stagnation of water has given rise to the problem of salinity and alkalinity.

7.4 Land Use Profile

There are mainly 8 types of land use / land cover has been identified from the Land Sat Imageries. The classes are as follows:

1. Kharif Crop Area
2. Rabi Crop Area
3. Double / Triple Agriculture land
4. Current Fallow Land
5. Scrub / Degraded Forest land
6. Other Waste land
7. Scrub Land
8. Water bodies

Total area of Proposed Watershed is 5475. Ha.

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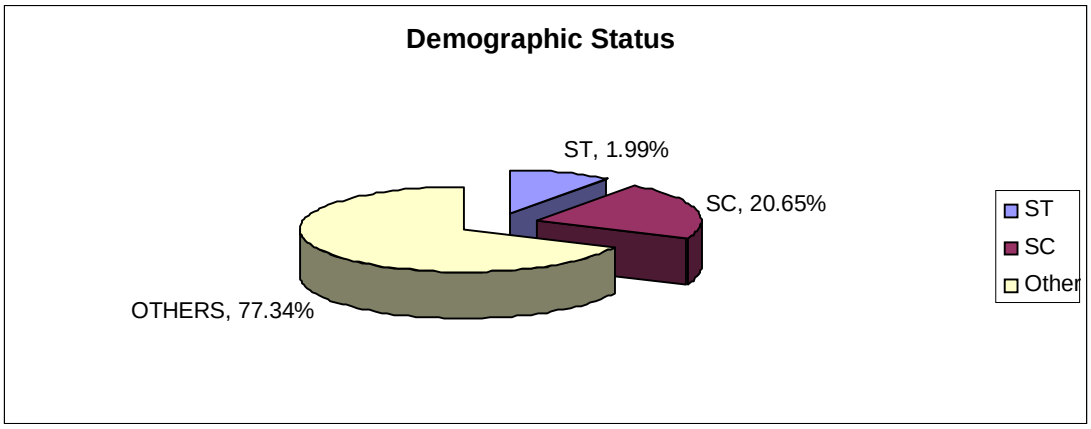
d- l-	xko dk uke	xke ipk;r	flfpr	vflfpr	vdf"k Hkfe		mipkj d fy, miyC/k	;kx	mipkj d fy, miyC/k ugh
					futh	ljdkjh			
1	Mohabbat Nagar	Ekkgcruxj	62	100	5	2	169	3099	2930
2	Phugni	Qxuh	79	276	103	514	972	972	0
3	Noon	Qxuh	345	451	105	346	1247	1665	418
4	Tawari	rojh	94	169	45	126	434	1315	881
5	Chaduaat	rojh	47	146	52	55	300	893	593
6	Fachariya	rojh	33	95	10	12	150	485	335
7	Jaila	tyk	95	275	101	150	621	865	244
8	Falwadi	tyk	119	1072	102	289	1582	2571	989
TOTAL			**874**	**2584**	**523**	**1494**	**5475**	**11865**	**6390**

7.5 Demographic Profile

TOTAL FAMILY

S. No	Panchayat Name	Village Name	SC	ST	OBC	Minority	Others	Total
1	Ekkgcruxj	Mohabbat Nagar	153	15	395	205	77	**845**
2	Qxuh	Phugni	61	5	115	55	35	**271**
3	Qxuh	Noon	48	14	185	110	21	**378**
4	rojh	Tawari	102	0	235	89	65	**491**
5	rojh	Chaduaat	92	6	110	71	15	**294**
6	rojh	Fachariya	41	0	65	15	11	**132**
7	tyk	Jaila	52	14	55	65	12	**198**
8	tyk	Falwadi	9	0	55	23	5	**92**
TOTAL			**558**	**54**	**1215**	**633**	**241**	**2701**



(Source House Hold Survey)

Population:

The population under the project area is inhabited by different types of communities like Bheel, Meena, Reger, Brahmin & Others etc.

S. No	Village Name	ILLITERATES			PRIMARY			UPER PRIMERY			HIGHER SEC.			Grand Total
		MALE	FEMALE	tot. Ili	MALE	FEMALE	T. P	MALE	FEMALE	T. UP	MALE	FEMALE	T. H	
1	Mohabbat Nagar	970	1455	2425	565	346	911	504	225	729	151	32	183	**4248**
2	Phugni	253	379	632	176	107	283	157	70	227	47	10	57	**1199**
3	Noon	504	755	1259	180	109	289	161	71	232	48	10	58	**1838**
4	Tawari	581	870	1451	303	185	488	270	120	390	81	17	98	**2427**
5	Chaduaat	328	491	819	206	126	332	184	82	266	55	12	67	**1484**
6	Fachariya	148	221	369	91	55	146	81	36	117	25	5	30	**662**
7	Jaila	238	355	593	111	67	178	98	44	142	30	6	36	**949**
8	Falwadi	85	127	212	58	35	93	52	23	75	16	3	19	**399**
TOTAL		**3107**	**4653**	**7760**	**1690**	**1030**	**2720**	**1507**	**671**	**2178**	**453**	**95**	**548**	**13206**

Literacy: From the above table describing the literacy status in the project area shows that the ratio is high. Male student ratio is higher than girl student ratio.

Connectivity: Most of the villages under the project area have metal roads Except for Fachariya Village which is very interior with no proper connectivity.

7.6 Livelihood Profile

- Poverty is multi-dimensional; therefore poverty reduction efforts have to be multi-dimensional targets. The solutions have to straddle different disciplines and encompass economic, social, political and institutional factors. Several attempts were made in the past and continue to be made even now in prioritizing the areas and develop suitable strategies. Deteriorating natural resource base is affecting the livelihoods of the rural communities especially of those belonging to the poor and marginalized sections that are mostly dependent on the commons and other fallow lands for biomass and water.

  Families facing chronic food insecurity are caught in a hunger trap. The inadequacy and uncertainty of their food supply make it difficult for them to take advantage of development opportunities.

Rajasthan is predominantly an agricultural state with a little more than 77 percent of the population living in the rural areas. Agriculture is the single largest sector in the economy, employing about 69 percent of Labour force. Total cultivable area in the state is 257 Lakh Hectares (1998-99). The estimated food grain production is 172.96 Lakh Tonnes. Rajasthan grows both Kharif and Rabi crops but the farmer is more important than the latter. The principal crops cultivated in the state are rice, barely, jowar, millet, maize, gram, wheat, oilseeds, pulses, cotton and tobacco. Other crops are red chilies, mustard, cumin seeds, methi and hing.

With the degrading forest cover and increasing population the water resources are declining sharply in the state. Depleting ground water resources is affecting the agriculture, which in turn is having adverse impact on rural population. This decline in availability will also have negative impact on drinking water situation resulting in water borne diseases, and lower level of cleanliness amongst the poor. Cereal production has long dominated the farming scene in the state of Rajasthan – particularly in the rain fed, drought prone areas. As farmers of these areas operate under highly uncertain situation food security is the uppermost concern.

Availability of water has strongly conditioned the nature of agriculture and farming practices in various parts of the state. Irrigated areas will have intensive cropping systems involving two to three crop cycles. Irrigation also favors high input based cash crops such as cotton, oilseeds, coriander etc. However single crop cycles are dominant in Rajasthan and a second crop is entirely dependent on the sub soil moisture or water yields in wells and tanks. The farmers in the rain fed areas tend to remain neglected from the provisions of agricultural services.

Kharif is the most important growing season in the project area of Sirohi. Local cereals and pulses are the principal crops during Kharif together with oilseeds. Major cereals grown during Kharif in different parts of the state include Bajara, Maize, Til, Wheat, Mustard and a wide variety of coarse grains. Crop production during Rabi remains mainly limited to such regions where irrigation facilities are well developed. Wheat is the most important Rabi cereal crop. The other produce in the Rabi season features Wheat, Gram, Mustard rapeseed and cotton.

The state of Rajasthan is nearly self sufficient in its food grain requirements but due to very harsh climatic conditions moderate to very high transitory food insecurity can be experienced in one part of the State or other in almost all the years.

Rajasthan evokes a picture of parched and thirsty lands faced with low and often erratic rainfall. This reality brings enormous hardship to the people. The worst drought years in recent times were 1985-87 during which rainfall failed for three successive years. Along with crop loss large scale loss of livestock and deprivation occurred in rural areas during this period.

In Rajasthan the Agricultural Sector is a predominant source of employment. The industrial backwardness is indicated through the share of Labour force engaged in the sector. The share of agricultural Labour has been increasing. The activities allied to agriculture and non-household manufacturing not being able to afford full time employment to people is pushing workers into agriculture and other types of Labour, A sector that face crisis. Agriculture Labour in areas where it is primarily rain fed or in semi arid and arid areas is very unstable and unsustainable especially for the Labour and the small and marginal farmers.

In Sirohi dependence on livestock is probably as great as dependence on crops. In times of drought when it is not possible to produce food grains a household is supported by continued milk and other animal products. Sheep and goat rearing are important in livelihood strategies of small and marginal landowners as well as the landless. They are a critical element in livelihood for the pastoral transmigrates.

During drought years cows and buffaloes are first to succumb to scarcities. Poor natural grasses, low agricultural residue and scarce water renders cattle weak and debilitated thus affecting their future generations. The loss of fodder crop also affects the livestock population. The incidence of livestock loss thus becomes significant when scarcity due to natural disaster is taken into account.

Migration to cities both within the state and outside is very widespread in the state during the period of crisis and under employment. Migration to cities and towns is usually to employment sectors in mining and quarrying and related work, in construction and in some small trading and manufacturing.

Looking into the Sirohi IWMP-III Project area, a few of the villages have canal system through which the farmers opt for Rabi Cultivation, but the rest solely depends on Kharif Cultivation for their Livelihood. Further, it is observed that the farmers are quite ignorant on water use in relation to irrigation. Flood irrigation is basically practiced for which there is extensive exploitation of ground water as well as surface water.

Livelihood status in Sirohi (IWMP III)

TOTAL FAMILY

S. No	Block Name	Panchayat Name	Village Name	SC	ST	OBC	Minority	Others	Total
1	fljkgh	Ekkgcruxj	Mohabbat Nagar	153	15	395	205	77	**845**
2	fljkgh	Qxuh	Phugni	61	5	115	55	35	**271**
3	fljkgh	Qxuh	Noon	48	14	185	110	21	**378**
4	fljkgh	rojh	Tawari	102	0	235	89	65	**491**
5	fljkgh	rojh	Chaduaat	92	6	110	71	15	**294**
6	fljkgh	rojh	Fachariya	41	0	65	15	11	**132**
7	fljkgh	tyk	Jaila	52	14	55	65	12	**198**
8	fljkgh	tyk	Falwadi	9	0	55	23	5	**92**
TOTAL				**558**	**54**	**1215**	**633**	**241**	**2701**

Livelihood enhancement plan

Village Name	SMALL FARMERS						MARGINAL FARMERS						BIG FARMERS					
	SC	ST	OBC	Minority	Others	Total	SC	ST	OBC	Minority	Others	Total	SC	ST	OBC	Minority	Others	Total
Mohabbat Nagar	51	5	130	68	26	**280**	39	4	101	53	20	**217**	21	1	57	28	10	**117**
Phugni	20	2	38	18	12	**90**	16	1	30	15	9	**71**	8	0	15	7	4	**34**
Noon	16	5	61	37	7	**126**	13	1	48	29	6	**97**	6	4	26	14	2	**52**
Tawari	34	0	78	30	22	**164**	26	0	60	23	17	**126**	14	0	33	11	8	**66**
Chaduaat	31	2	36	24	5	**98**	24	1	0	19	4	**48**	12	1	44	8	1	**66**
Fachariya	14	0	22	5	4	**45**	11	0	17	4	0	**32**	4	0	8	1	4	**17**
Jaila	17	5	18	22	4	**66**	14	1	14	1	4	**34**	6	4	8	24	0	**42**
Falwadi	3	0	18	8	2	**31**	3	0	14	6	2	**25**	0	0	8	1	0	**9**
TOTAL	**186**	**19**	**401**	**212**	**82**	**900**	**146**	**8**	**284**	**150**	**62**	**650**	**71**	**10**	**199**	**94**	**29**	**403**

7. Elements of Work

7.1 Ecologically sound regeneration

While Nature functions as a fairly independent system and could perhaps rejuvenate and reach an equally good state in the long run, the direct and immediate impact of the degradation of natural systems would decimate several species and severely affect the poor who depend on natural surroundings for their survival. Moreover the scale and extent of degradation of the natural surroundings and the inadequate attention that such fundamental concerns receive in development planning brings us face- to-face with a situation where concerted action is necessary to halt and reverse such trends. We also observe that ecological degradation is mostly caused by social and economic factors necessitating an interdisciplinary action in safeguarding Nature. A few of the phases of ecological restoration inculcates in ii) assisting village communities in protecting their forests and grazing lands to enable natural regeneration of the existing rootstock and ii) assessing the stock and flow of biomass, biodiversity and water across natural and production systems so as to place the relevance of the efforts on regeneration and

bring to the table an informed discussion around the permissible levels of extraction so as to draw strategies for conservation action.

7.2 Institutional mechanism

Good governance has been seen as a panacea to make development efforts meaningful for the citizens - that which enables citizens and communities to fulfill their lives and destinies, enable people to create sustainable livelihoods for themselves, facilitate the fulfillment of basic needs, and promote an attitude of self-reliance. Institutional process involve in strengthening, nurturing and reviving of village institutions and working towards enabling them to gain a sound legal foothold on the natural resources, where it is uncertain or disputed, and where a legal provision exists.

7.3 Building dialogue and discussion

We know that any progress will require a complex of social, political and economic changes. The challenge ahead is to marry scientific and technological innovation with a much greater capacity for institutional innovation. Such innovation and change relies to a large extent on the effectiveness with which a diversity of stakeholders with different interests and from different sectors and scales can interact.

In such a context, there is an increasing recognition that governing a landscape is no longer solely the domain of government. Evidences show that due to the complexities of socio-economic and political environments government cannot govern forest and nature on its own. The rapid processes of decentralization and devolution that is taking place around the world indicates the need to shift towards collaborative governance in which various actors (e.g. governments, local communities, local entrepreneurs and civil society) are expected to co-manage resources such as forest and nature.

Although multi-stakeholder processes (MSPs) are based on recognising the importance of achieving equity and accountability between stakeholders, win-win solutions are not always possible. The complexity of issues and stakes, across different levels and timescales, may lead to a negotiated compromise in which win-lose or even lose-lose solutions have to be accepted. In such situations it is critical to understand the role of the state as (at least in theory) the protector of the common good for the long-term. Policy makers often find themselves caught between their public service duties, short-term electoral interests and the splintered interests of different stakeholder groups.

Setting up and facilitating long term processes that bring different groups into constructive engagements, dialogue and decision making towards good governance of the landscape. Processes that aim to involve stakeholders in improving situations that affect them; forms of social interaction that enable different individuals and groups, who are affected by an issue, to enter into dialogue, negotiation, learning, decision making and collective action; about getting government staff, policy makers, community representatives, scientists, business people and NGO representatives to think and work together.

8. Components of Work

8.1 Capacity Building and Community Mobilization

Training and exposure enhances knowledge, skill, attitude and human relationships. Though, a number of measures had been taken in this regard, experiences show that the training programmes should aim at (i) strengthening those processes, skills and knowledge that help in the delivery of various watershed development activities; (ii) improving the quality of watershed management and its governance iii) providing more number of relevant trainings involving more community participation particularly rural women and; (iv) strengthening the various habitation level institutions by promoting traditional practices of good governance mechanism of Natural Resources.

8.2 Work on landscape component

8.2.1 Work on arable land

Arable land constitutes ha of the total project area. The area has minimum slope and is less undulated. The community primarily depends on agriculture and animal husbandry for sustaining their livelihoods. Discussions with community and intensive survey revealed that these areas are prone to soil erosion due to runoff, wrong agronomic practices and poor vegetation. As soil depth is moderately low and regular erosion of valuable top soil has its impact on not only decreasing the productivity levels but also raising the question of sustainability of the most critical production system.

Presently there is least physical measures to retain soil moisture for longer periods which leads to increasing exploitation of groundwater for irrigation and for poor farmers frequent crop failures due to lack of water availability at different phases of crop growth.

Work to restore the functionality of this component of landscape will involve not only intensive physical treatment but also regular discussions and awareness building of the communities to adopt better agronomic practices like rotational cropping, use of green/organic manure, agro-forestry etc., Focus will be to increase the productivity of each land unit per drop of water which not only help in raising farm incomes both in terms of food grains and fodder but also leads to sustainable and judicious use of resources.

Physical treatments planned constitute of measures to harvest water which provide soil moisture for longer periods. The physical treatment measures will also aim to minimize soil erosion under safe levels. Activities planned to address these includes farm ponds, farm bunds and Masonary check dam keeping in view the parameters like soil depth, slope, vegetation, Erodibility and rainfall.

8.2.2 Work on non arable land

These are the most degraded portions in the landscape with very low productivity due to continuous process of soil erosion which has in many pockets completely removed the soil cover. Lack of any physical treatment measures, very low vegetative cover and prolonged neglect to effectively manage them, has led to non functionality of this landscape component to provide any substantial goods and services which have played a critical role in sustaining farming and livestock systems in semi arid conditions. These landscape components also play a critical role in nutrient and water transfer and have a organic link with private lands. The project will intensively focus on these common and private wastelands to build spaces for poor who mainly depend on these marginal lands to meet their resource needs. Restoration of these lands will also aim to strengthen the intricate link these have with the low lying farm lands and strengthen ecological security.

The physical activities planned will address two main components of regeneration and soil and water conservation. However crafting and strengthening strong institutions which can establish strong governance on these lands will be the key to sustainability of these physical measures.

Regeneration Activities:

- On village grazing lands: the project plans to Regenerate 100 ha of Panchayat Grazing Lands with Appropriate mix of Trees and Grasses.

- On revenue lands: The project aims improve the productive capacity of the ha of revenue wastelands which have been subject to acute degradation.

Efforts would be made to increase the soil moisture regime by appropriate soil and moisture conservation activities such as:

- Contour Trenching
- Masonry Check Dam
- Road Side Plantation

8.2.3 Drainage line treatment

Stream orders of M, M-1, M-2, M-3 are present in the project area. Firstly it is observed that due to minimal slope sheath erosion is very prominent leading to extensive Siltation in the drains. Secondly the drainage density combined with geological understanding of the area shows a high recharge potential in the area.

The project aims in this context to further enhance the recharge with combination of various physical measures to check water flow and harvest water. The project also aims to enhance the availability of surface and ground water through the construction of various water harvesting and recharge structures such as:

- Masonry Check Dam
- M.M.S. (Minor Masonry Check Dam)
- L. S. C. D.

The structures primarily aim to check runoff, soil erosion and enhance recharge. These structures also have been aimed to serve as structures for livestock drinking.

8.3 Livelihood promotion activities

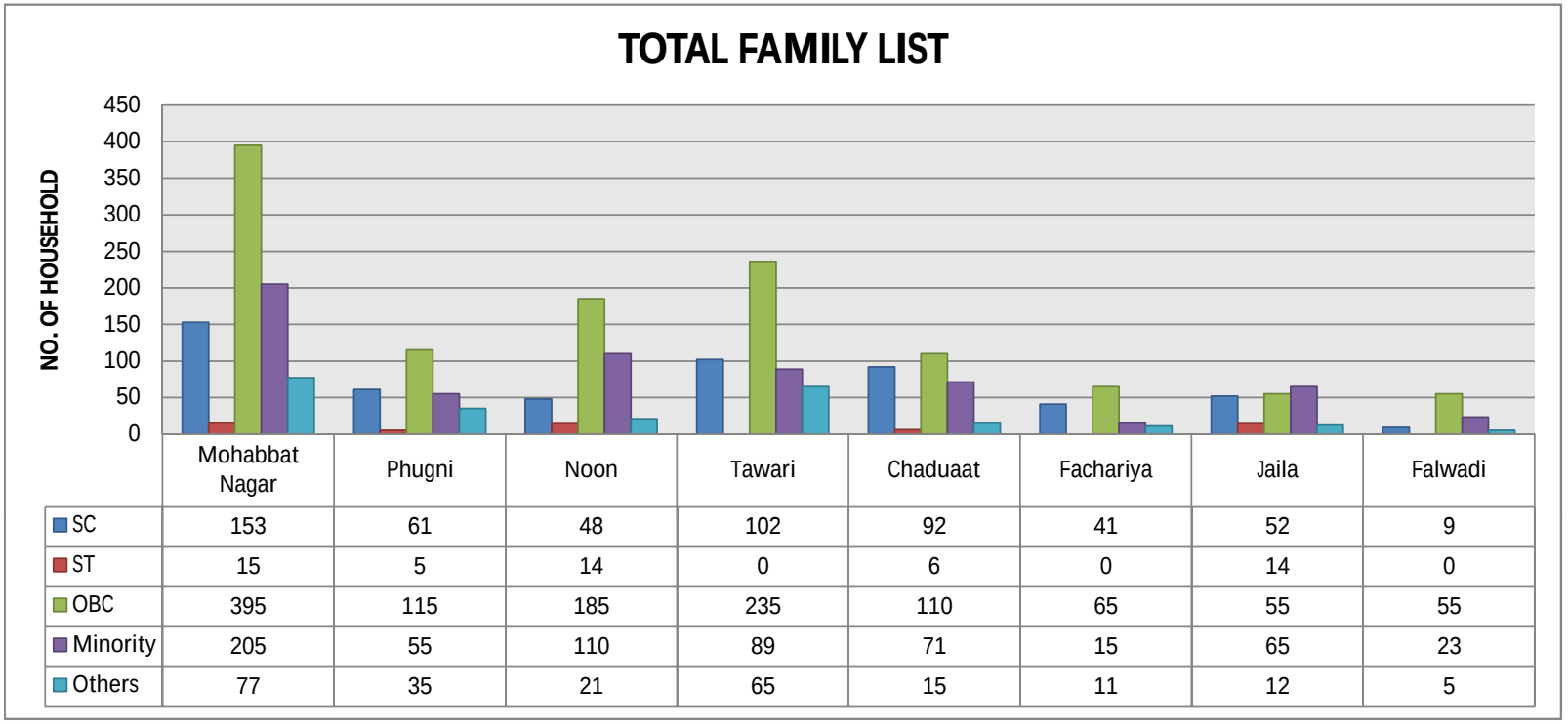
Poverty alleviation Program me is not an exclusive entity but will necessarily include dynamic nature and integration of range of context specific interventions. Poverty itself is an abstract phenomenon and requires sensitization of beneficiaries, implementers and the policy workers. Collective associations will be basis of intervention strategy. Diversification of livelihood alternatives with ecological and social considerations will be the guiding principle. Skill enhancement will open new opportunities to strengthen the employment options.

Poverty alleviation programmed should closely knit the concurrent context specific realities and then draw a household specific dynamic plan which can be updated in the subsequent stages, since the intervention requirement will change automatically. The major challenge is poverty among working people. The poor needs a number of (new) employment opportunities to come out of the poverty.

SIROHI (IWMP - III) W/S 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)
AS PER BASE LINE SURVEY

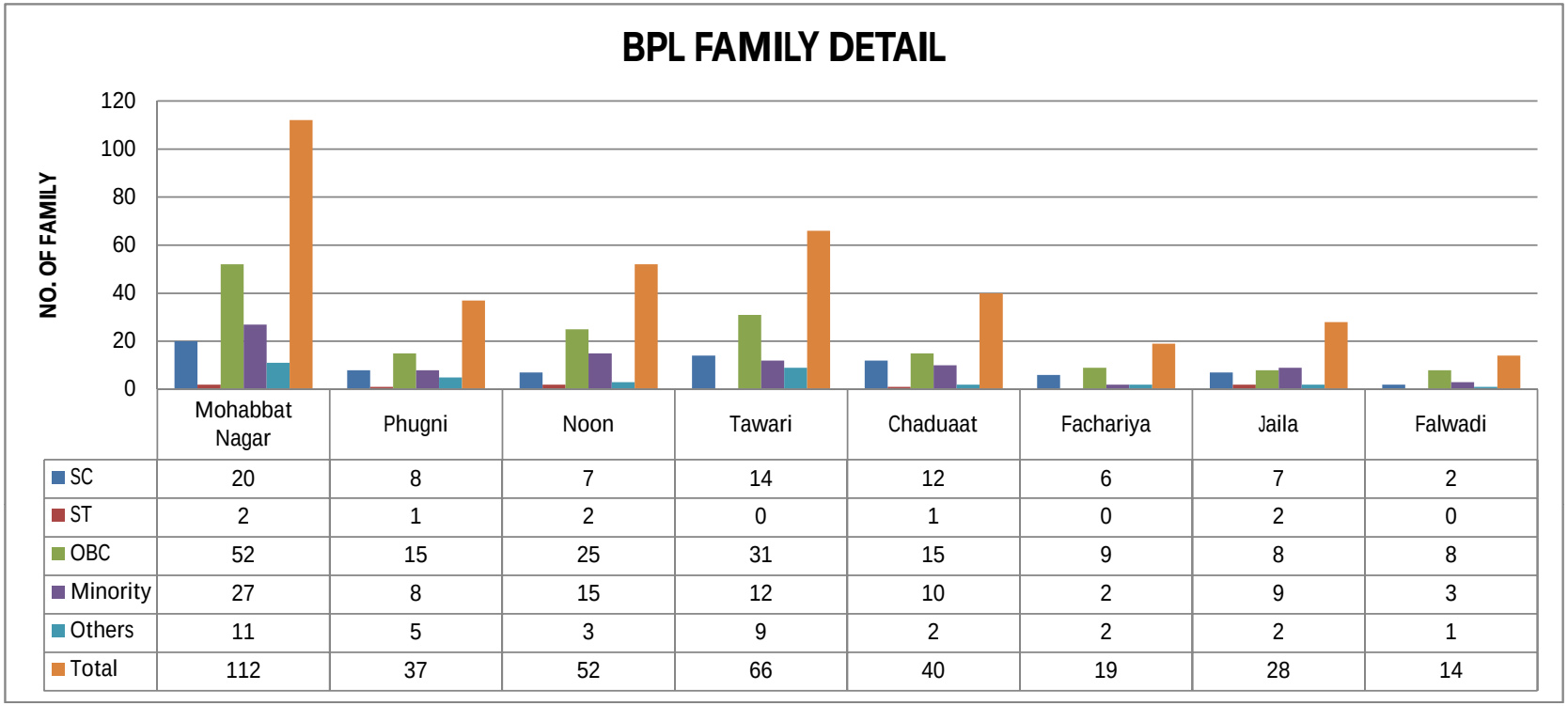
TOTAL FAMILY

S.No	Block Name	Panchayat Name	Village Name	SC	ST	OBC	Minority	Others	Total
1	f l jkgh	Ekkgcruxj	Mohabbat Nagar	153	15	395	205	77	**845**
2	f l jkgh	Qxuh	Phugni	61	5	115	55	35	**271**
3	f l jkgh	Qxuh	Noon	48	14	185	110	21	**378**
4	f l jkgh	rojh	Tawari	102	0	235	89	65	**491**
5	f l jkgh	rojh	Chaduaat	92	6	110	71	15	**294**
6	f l jkgh	rojh	Fachariya	41	0	65	15	11	**132**
7	f l jkgh	t yk	Jaila	52	14	55	65	12	**198**
8	f l jkgh	t yk	Falwadi	9	0	55	23	5	**92**
TOTAL				**558**	**54**	**1215**	**633**	**241**	**2701**



SIROHI (IWMP - III) W/S 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)
AS PER BASE LINE SURVEY
BPL LIST

S.No	Block Name	Panchayat Name	Village Name	SC	ST	OBC	Minority	Others	Total
1	f l jkgh	Ekkgcruxj	Mohabbat Nagar	20	2	52	27	11	**112**
2	f l jkgh	Qxuh	Phugni	8	1	15	8	5	**37**
3	f l jkgh	Qxuh	Noon	7	2	25	15	3	**52**
4	f l jkgh	rojh	Tawari	14	0	31	12	9	**66**
5	f l jkgh	rojh	Chaduaat	12	1	15	10	2	**40**
6	f l jkgh	rojh	Fachariya	6	0	9	2	2	**19**
7	f l jkgh	t yk	Jaila	7	2	8	9	2	**28**
8	f l jkgh	t yk	Falwadi	2	0	8	3	1	**14**
Total				**76**	**8**	**163**	**86**	**35**	**368**



SIROHI (IWMP - III) W/S 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)
AS PER BASE LINE SURVEY
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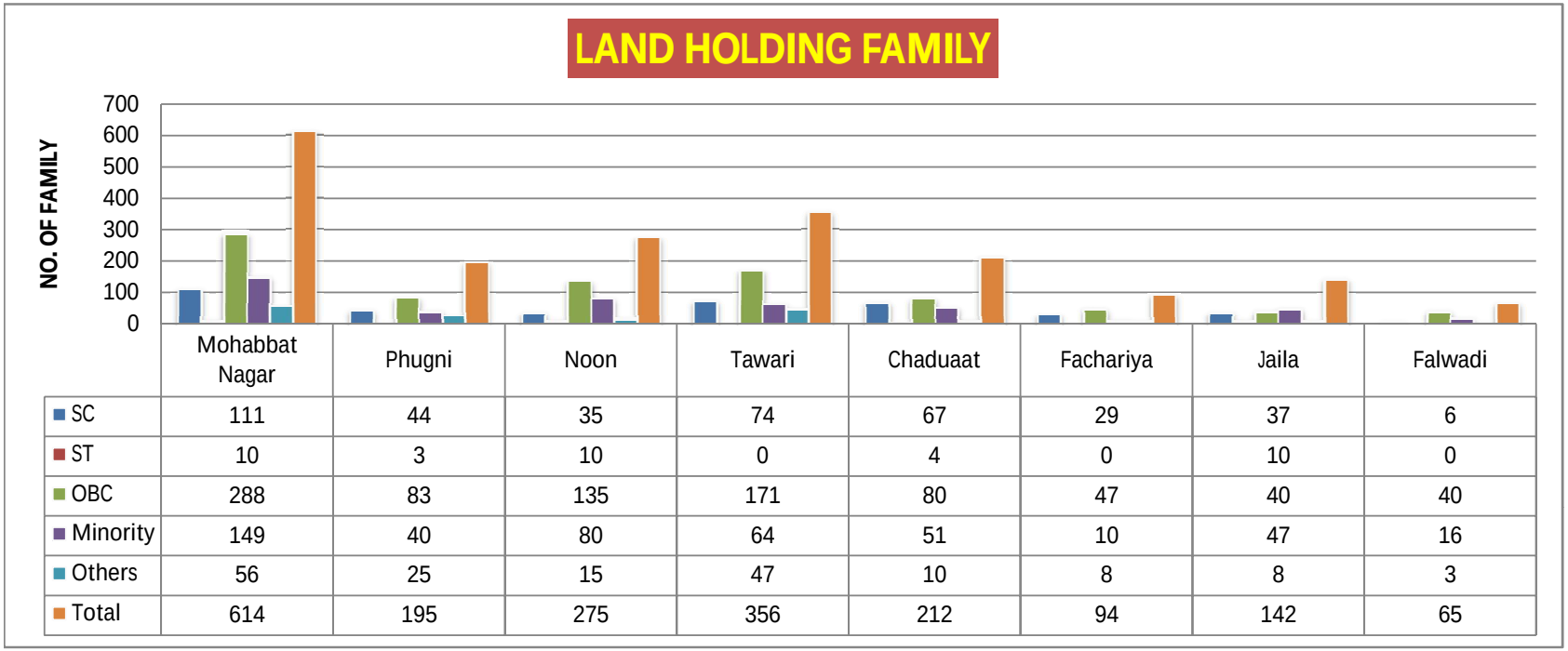
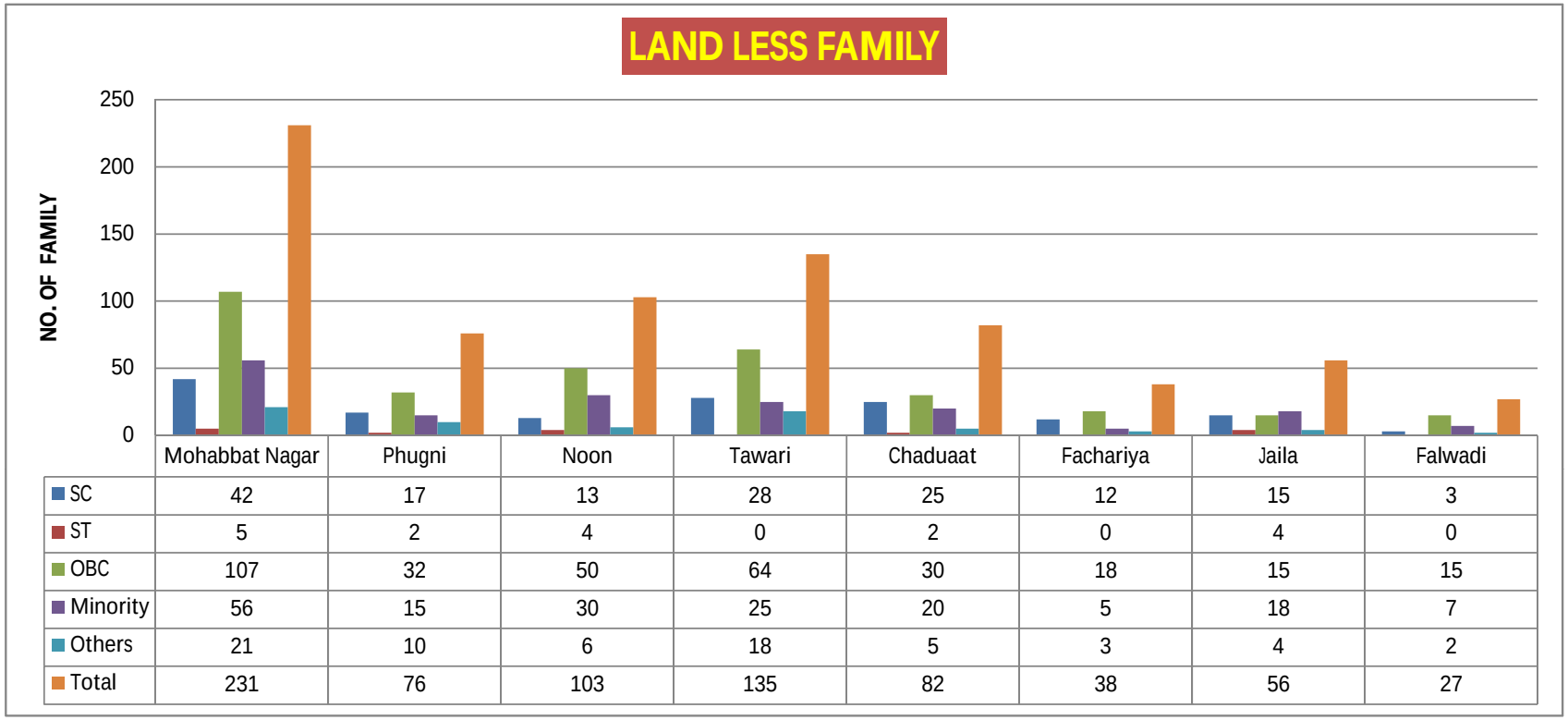
S. No	Block Name	Panchayat Name	Village Name	SC	ST	OBC	Minority	Others	Total
1	f l j kgh	Ekkgcruxj	Mohabbat Nagar	111	10	288	149	56	**614**
2	f l j kgh	Qxuh	Phugni	44	3	83	40	25	**195**
3	f l j kgh	Qxuh	Noon	35	10	135	80	15	**275**
4	f l j kgh	rojh	Tawari	74	0	171	64	47	**356**
5	f l j kgh	rojh	Chaduaat	67	4	80	51	10	**212**
6	f l j kgh	rojh	Fachariya	29	0	47	10	8	**94**
7	f l j kgh	t yk	Jaila	37	10	40	47	8	**142**
8	f l j kgh	t yk	Falwadi	6	0	40	16	3	**65**
TOTAL				**403**	**37**	**884**	**457**	**172**	**1953**



SIROHI (IWMP - III) W/S 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)
AS PER BASE LINE SURVEY
Hkfeghu ifjokj

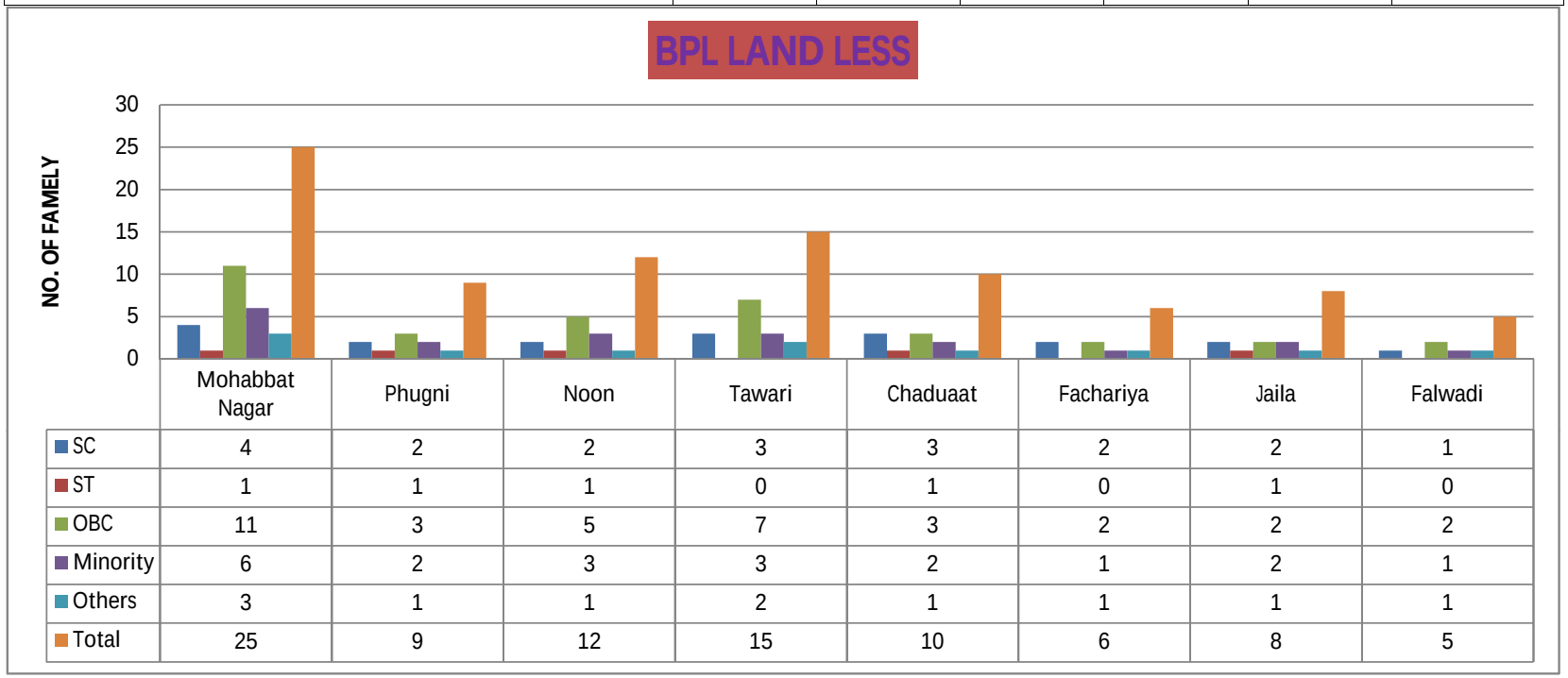
S. No	Block Name	Panchayat Name	Village Name	SC	ST	OBC	Minority	Others	Total
1	fl jkgh	Ekkgcruxj	Mohabbat Nagar	42	5	107	56	21	**231**
2	fl jkgh	Qxuh	Phugni	17	2	32	15	10	**76**
3	fl jkgh	Qxuh	Noon	13	4	50	30	6	**103**
4	fl jkgh	rojh	Tawari	28	0	64	25	18	**135**
5	fl jkgh	rojh	Chaduaat	25	2	30	20	5	**82**
6	fl jkgh	rojh	Fachariya	12	0	18	5	3	**38**
7	fl jkgh	tyk	Jaila	15	4	15	18	4	**56**
8	fl jkgh	tyk	Falwadi	3	0	15	7	2	**27**
TOTAL				**155**	**17**	**331**	**176**	**69**	**748**



	Mohabbat Nagar	Phugni	Noon	Tawari	Chaduaat	Fachariya	Jaila	Falwadi
SC	42	17	13	28	25	12	15	3
ST	5	2	4	0	2	0	4	0
OBC	107	32	50	64	30	18	15	15
Minority	56	15	30	25	20	5	18	7
Others	21	10	6	18	5	3	4	2
Total	231	76	103	135	82	38	56	27

SIROHI (IWMP - III) W/S 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)
AS PER BASE LINE SURVEY
p;fur Hkfeghu ifjokj

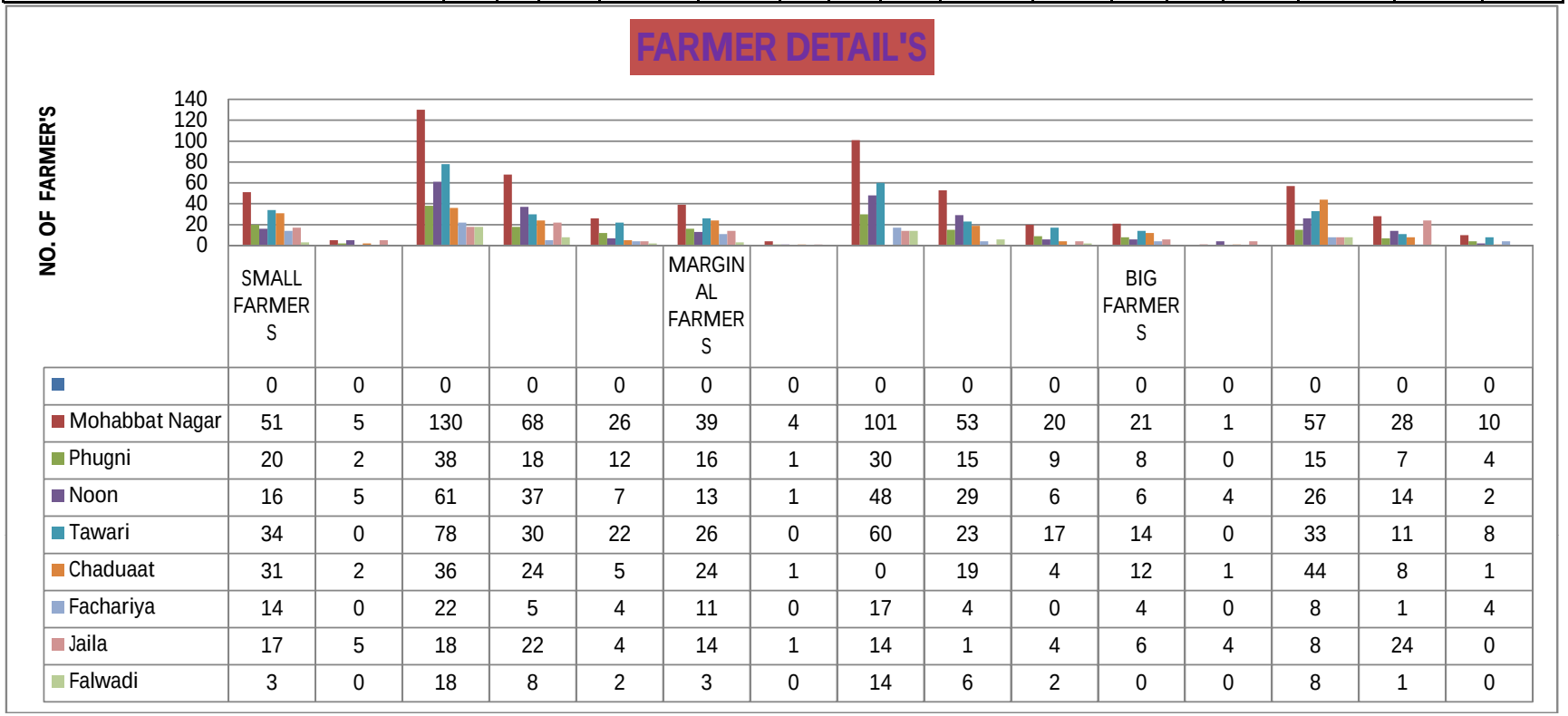
S. No	Block Name	Panchayat Name	Village Name	SC	ST	OBC	Minority	Others	Total
1	fl jkgh	Ekkgcruxj	Mohabbat Nagar	4	1	11	6	3	**25**
2	fl jkgh	Qxuh	Phugni	2	1	3	2	1	**9**
3	fl jkgh	Qxuh	Noon	2	1	5	3	1	**12**
4	fl jkgh	rojh	Tawari	3	0	7	3	2	**15**
5	fl jkgh	rojh	Chaduaat	3	1	3	2	1	**10**
6	fl jkgh	rojh	Fachariya	2	0	2	1	1	**6**
7	fl jkgh	t yk	Jaila	2	1	2	2	1	**8**
8	fl jkgh	t yk	Falwadi	1	0	2	1	1	**5**
TOTAL				**19**	**5**	**35**	**20**	**11**	**90**



	Mohabbat Nagar	Phugni	Noon	Tawari	Chaduaat	Fachariya	Jaila	Falwadi
SC	4	2	2	3	3	2	2	1
ST	1	1	1	0	1	0	1	0
OBC	11	3	5	7	3	2	2	2
Minority	6	2	3	3	2	1	2	1
Others	3	1	1	2	1	1	1	1
Total	25	9	12	15	10	6	8	5

SIROHI (IWMP - III) W/S 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)
AS PER BASE LINE SURVEY

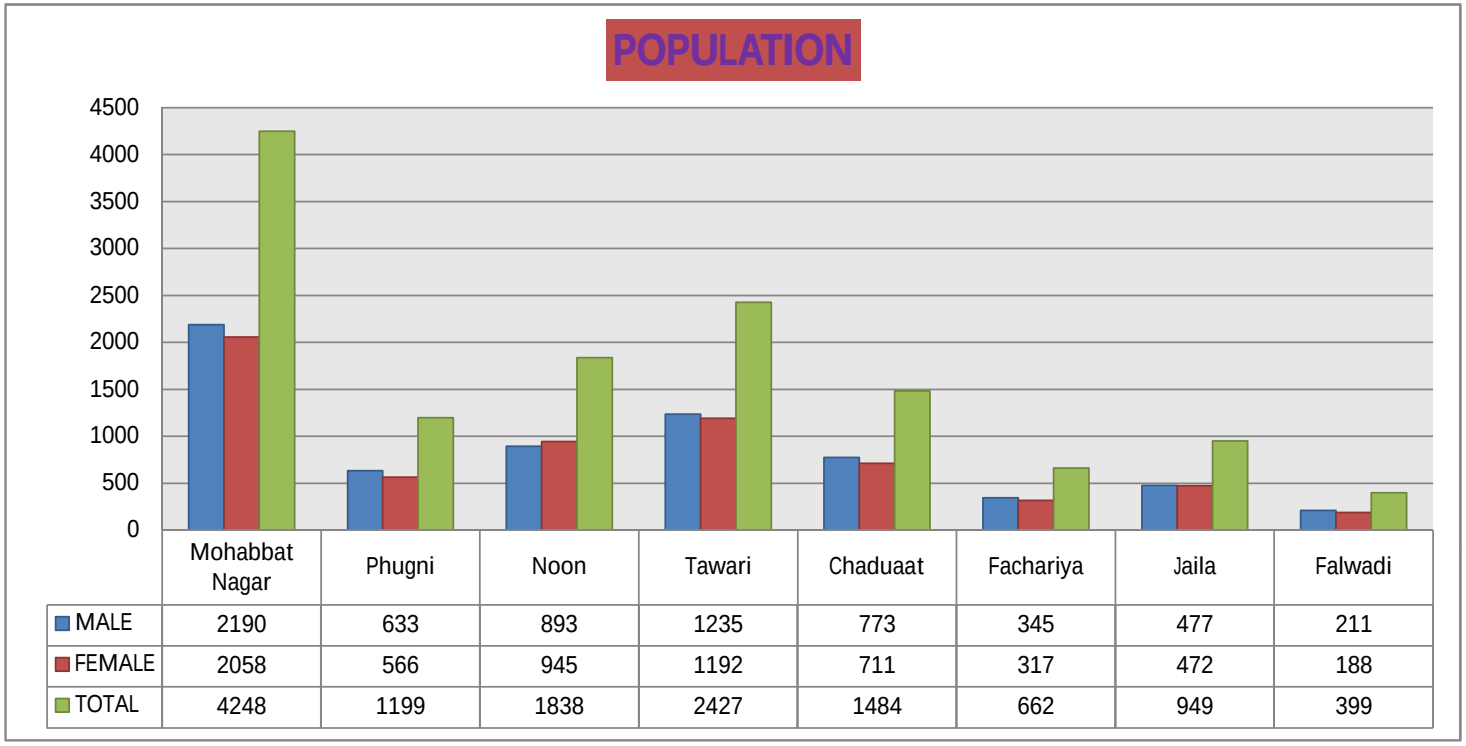
S. No	Block Name	Panchayat Name	Village Name	SMALL FARMERS					MARGINAL FARMERS					BIG FARMERS					TOTAL
				SC	ST	OBC	Minority	Others	SC	ST	OBC	Minority	Others	SC	ST	OBC	Minority	Others	
1	f l j kgh	Ekkgcruxj	Mohabbat Nagar	51	5	130	68	26	39	4	101	53	20	21	1	57	28	10	614
2	f l j kgh	Qxuh	Phugni	20	2	38	18	12	16	1	30	15	9	8	0	15	7	4	195
3	f l j kgh	Qxuh	Noon	16	5	61	37	7	13	1	48	29	6	6	4	26	14	2	275
4	f l j kgh	rojh	Tawari	34	0	78	30	22	26	0	60	23	17	14	0	33	11	8	356
5	f l j kgh	rojh	Chaduaat	31	2	36	24	5	24	1	0	19	4	12	1	44	8	1	212
6	f l j kgh	rojh	Fachariya	14	0	22	5	4	11	0	17	4	0	4	0	8	1	4	94
7	f l j kgh	t yk	Jaila	17	5	18	22	4	14	1	14	1	4	6	4	8	24	0	142
8	f l j kgh	t yk	Falwadi	3	0	18	8	2	3	0	14	6	2	0	0	8	1	0	65
TOTAL				**186**	**19**	**401**	**212**	**82**	**146**	**8**	**284**	**150**	**62**	**71**	**10**	**199**	**94**	**29**	**1953**



	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mohabbat Nagar	51	5	130	68	26	39	4	101	53	20	21	1	57	28	10
Phugni	20	2	38	18	12	16	1	30	15	9	8	0	15	7	4
Noon	16	5	61	37	7	13	1	48	29	6	6	4	26	14	2
Tawari	34	0	78	30	22	26	0	60	23	17	14	0	33	11	8
Chaduaat	31	2	36	24	5	24	1	0	19	4	12	1	44	8	1
Fachariya	14	0	22	5	4	11	0	17	4	0	4	0	8	1	4
Jaila	17	5	18	22	4	14	1	14	1	4	6	4	8	24	0
Falwadi	3	0	18	8	2	3	0	14	6	2	0	0	8	1	0

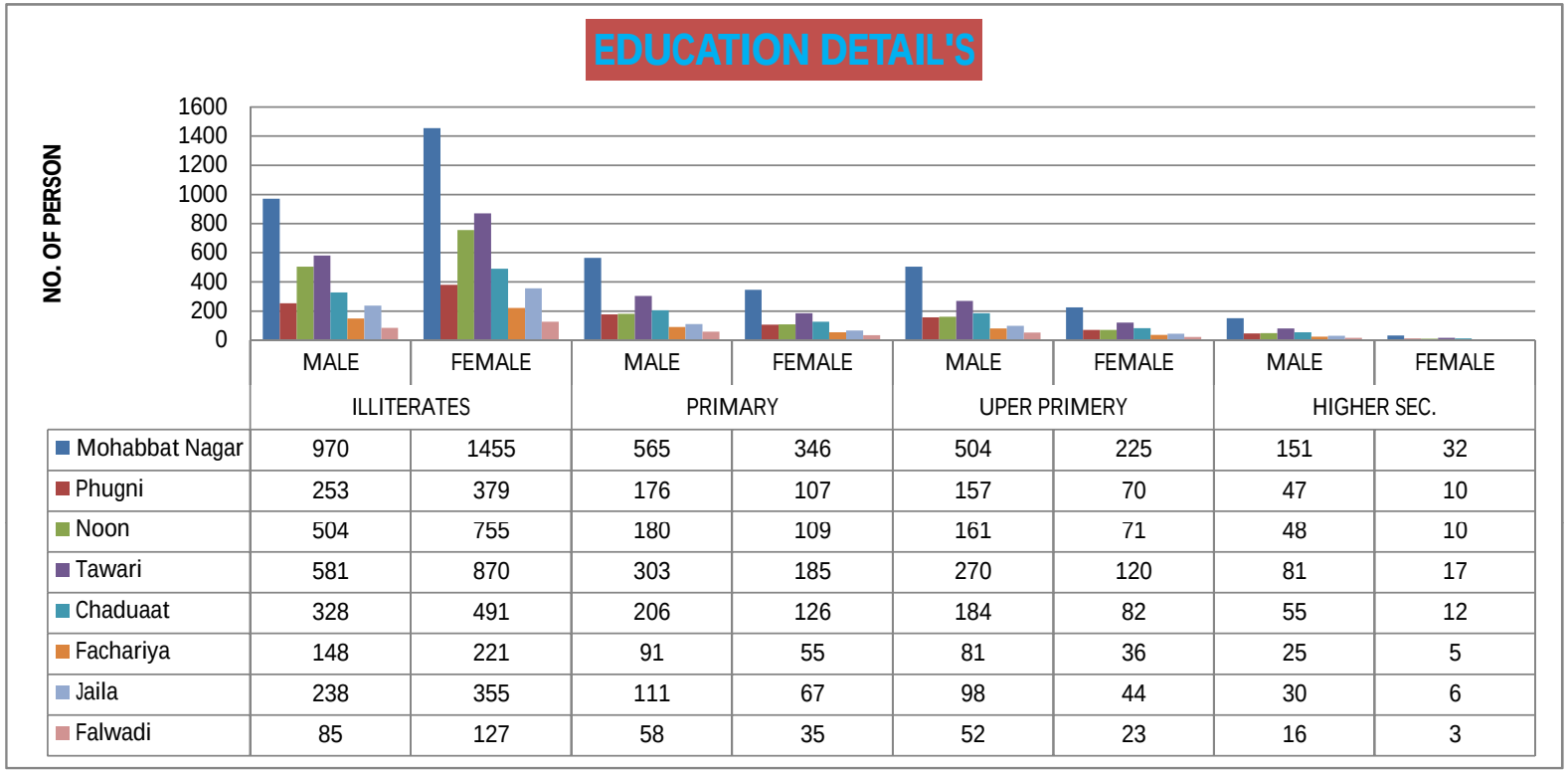
SIROHI (IWMP - III) W/S 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)
AS PER BASE LINE SURVEY

S. No	Block Name	Panchayat Name	Village Name	MALE	FEMALE	TOTAL
1	f l jkgh	Ekkgcruxj	Mohabbat Nagar	2190	2058	4248
2	f l jkgh	Qxuh	Phugni	633	566	1199
3	f l jkgh	Qxuh	Noon	893	945	1838
4	f l jkgh	rojh	Tawari	1235	1192	2427
5	f l jkgh	rojh	Chaduaat	773	711	1484
6	f l jkgh	rojh	Fachariya	345	317	662
7	f l jkgh	t yk	Jaila	477	472	949
8	f l jkgh	t yk	Falwadi	211	188	399
TOTAL				**6757**	**6449**	**13206**



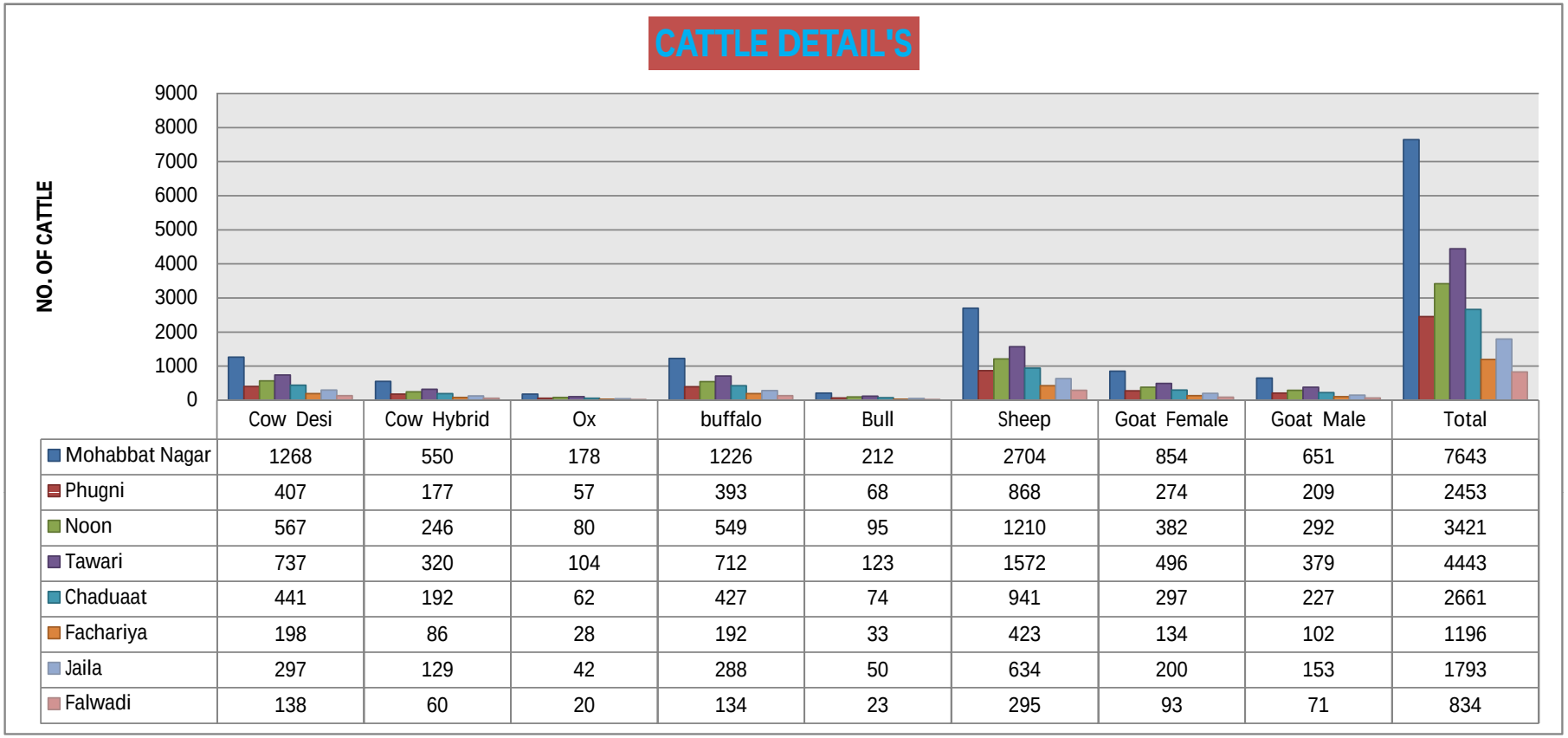
SIROHI (IWMP - III) W/S 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)
AS PER BASE LINE SURVEY

S. No	Block Name	Panchayat Name	Village Name	ILLITERATES		PRIMARY		UPER PRIMERY		HIGHER SEC.		Grand Total
				MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	
1	fl jkgh	Ekkgcruxj	Mohabbat Nagar	970	1455	565	346	504	225	151	32	**4248**
2	fl jkgh	Qxuh	Phugni	253	379	176	107	157	70	47	10	**1199**
3	fl jkgh	Qxuh	Noon	504	755	180	109	161	71	48	10	**1838**
4	fl jkgh	rojh	Tawari	581	870	303	185	270	120	81	17	**2427**
5	fl jkgh	rojh	Chaduaat	328	491	206	126	184	82	55	12	**1484**
6	fl jkgh	rojh	Fachariya	148	221	91	55	81	36	25	5	**662**
7	fl jkgh	tyk	Jaila	238	355	111	67	98	44	30	6	**949**
8	fl jkgh	tyk	Falwadi	85	127	58	35	52	23	16	3	**399**
TOTAL				**3107**	**4653**	**1690**	**1030**	**1507**	**671**	**453**	**95**	**13206**



SIROHI (IWMP - III) W/S 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)
AS PER BASE LINE SURVEY

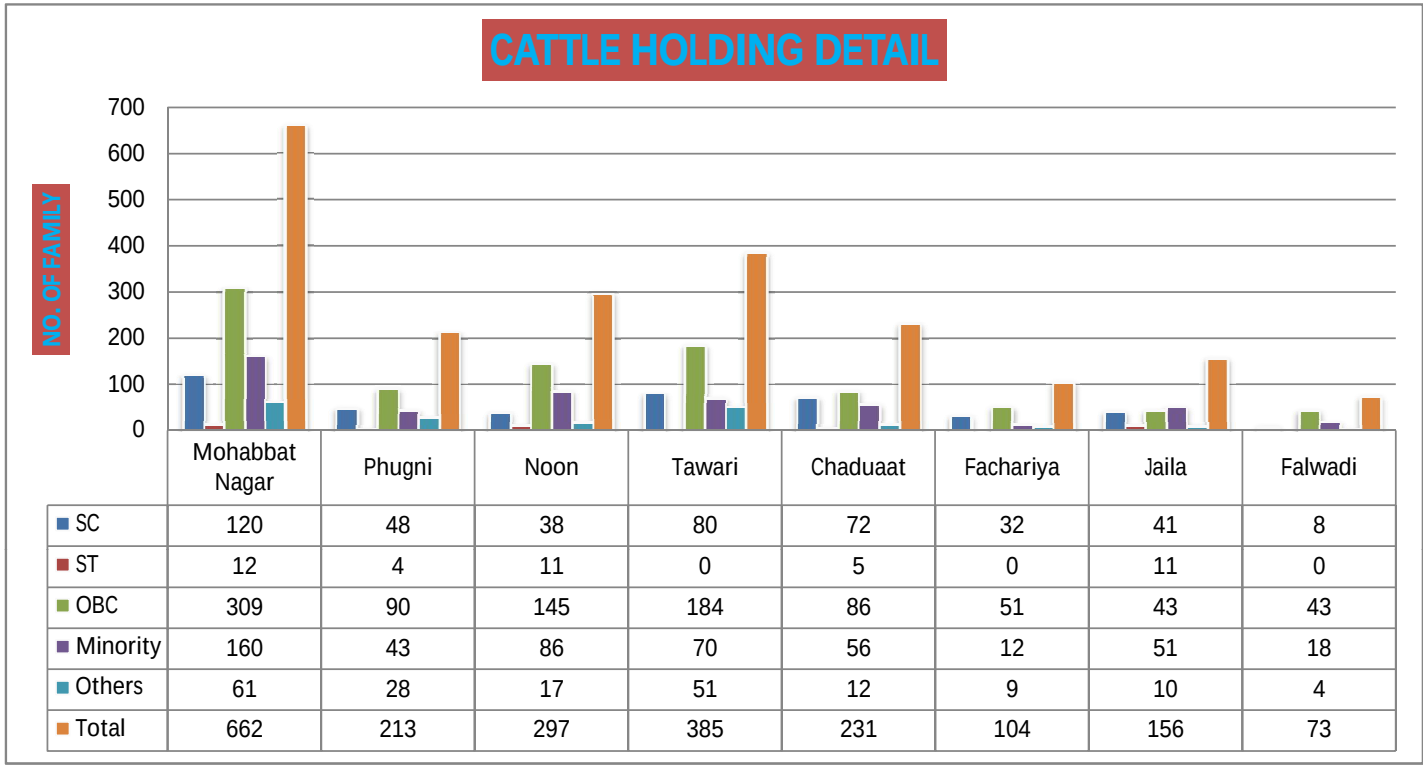
S. No	Block Name	Panchayat Name	Village Name	Cow Desi	Cow Hybrid	Ox	buffalo	Bull	Sheep	Goat Female	Goat Male	Total
1	f l jkgh	Ekkgcruxj	Mohabbat Nagar	1268	550	178	1226	212	2704	854	651	**7643**
2	f l jkgh	Qxuh	Phugni	407	177	57	393	68	868	274	209	**2453**
3	f l jkgh	Qxuh	Noon	567	246	80	549	95	1210	382	292	**3421**
4	f l jkgh	rojh	Tawari	737	320	104	712	123	1572	496	379	**4443**
5	f l jkgh	rojh	Chaduaat	441	192	62	427	74	941	297	227	**2661**
6	f l jkgh	rojh	Fachariya	198	86	28	192	33	423	134	102	**1196**
7	f l jkgh	t yk	Jaila	297	129	42	288	50	634	200	153	**1793**
8	f l jkgh	t yk	Falwadi	138	60	20	134	23	295	93	71	**834**
TOTAL				**4053**	**1760**	**571**	**3921**	**678**	**8647**	**2730**	**2084**	**24444**



	Cow Desi	Cow Hybrid	Ox	buffalo	Bull	Sheep	Goat Female	Goat Male	Total
Mohabbat Nagar	1268	550	178	1226	212	2704	854	651	7643
Phugni	407	177	57	393	68	868	274	209	2453
Noon	567	246	80	549	95	1210	382	292	3421
Tawari	737	320	104	712	123	1572	496	379	4443
Chaduaat	441	192	62	427	74	941	297	227	2661
Fachariya	198	86	28	192	33	423	134	102	1196
Jaila	297	129	42	288	50	634	200	153	1793
Falwadi	138	60	20	134	23	295	93	71	834

SIROHI (IWMP - III) W/S 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)
AS PER BASE LINE SURVEY
i'kq ekyy ifjokj

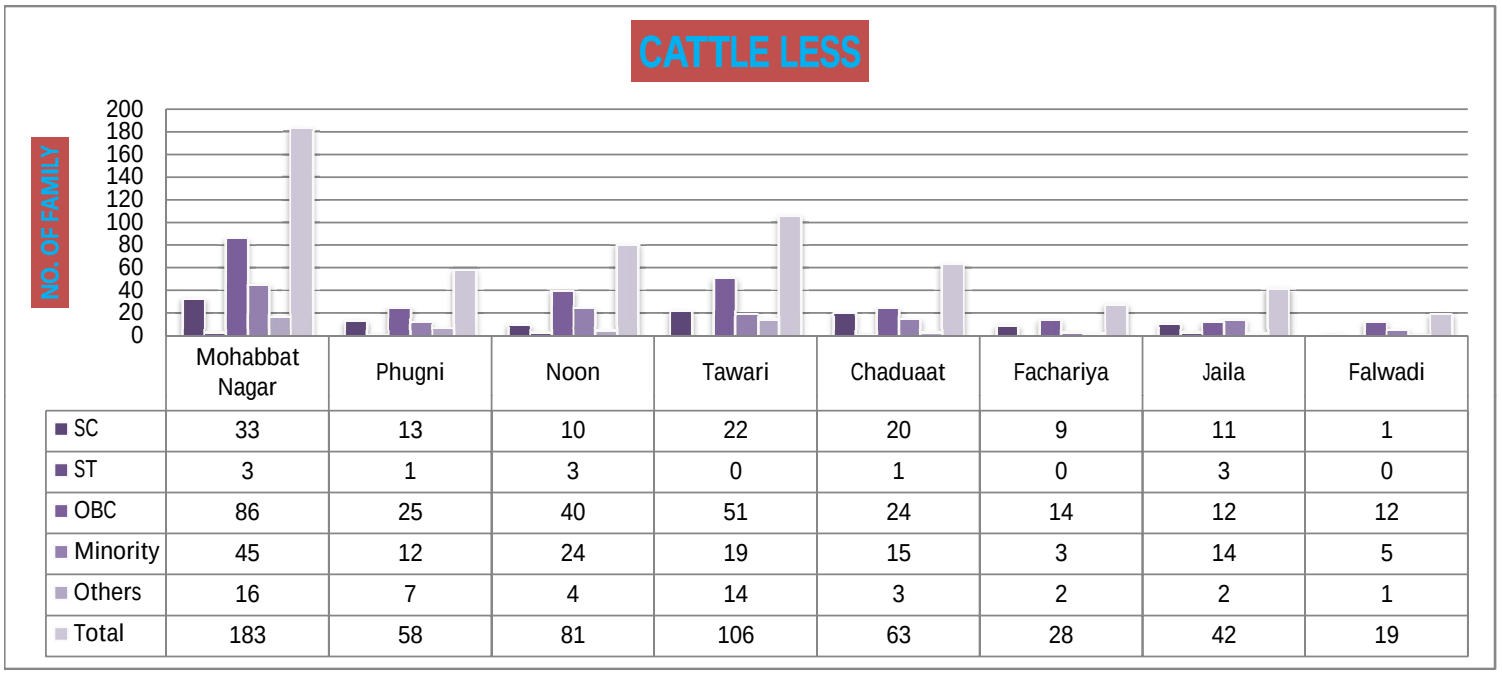
S. No	Block Name	Panchayat Name	Village Name	SC	ST	OBC	Minority	Others	Total
1	fl jkgh	Ekkgcruxj	Mohabbat Nagar	120	12	309	160	61	**662**
2	fl jkgh	Qxuh	Phugni	48	4	90	43	28	**213**
3	fl jkgh	Qxuh	Noon	38	11	145	86	17	**297**
4	fl jkgh	rojh	Tawari	80	0	184	70	51	**385**
5	fl jkgh	rojh	Chaduaat	72	5	86	56	12	**231**
6	fl jkgh	rojh	Fachariya	32	0	51	12	9	**104**
7	fl jkgh	tyk	Jaila	41	11	43	51	10	**156**
8	fl jkgh	tyk	Falwadi	8	0	43	18	4	**73**
TOTAL				**439**	**43**	**951**	**496**	**192**	**2121**



	Mohabbat Nagar	Phugni	Noon	Tawari	Chaduaat	Fachariya	Jaila	Falwadi
SC	120	48	38	80	72	32	41	8
ST	12	4	11	0	5	0	11	0
OBC	309	90	145	184	86	51	43	43
Minority	160	43	86	70	56	12	51	18
Others	61	28	17	51	12	9	10	4
Total	662	213	297	385	231	104	156	73

SIROHI (IWMP - III) W/S 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)
AS PER BASE LINE SURVEY
i'kkughu ifjokj

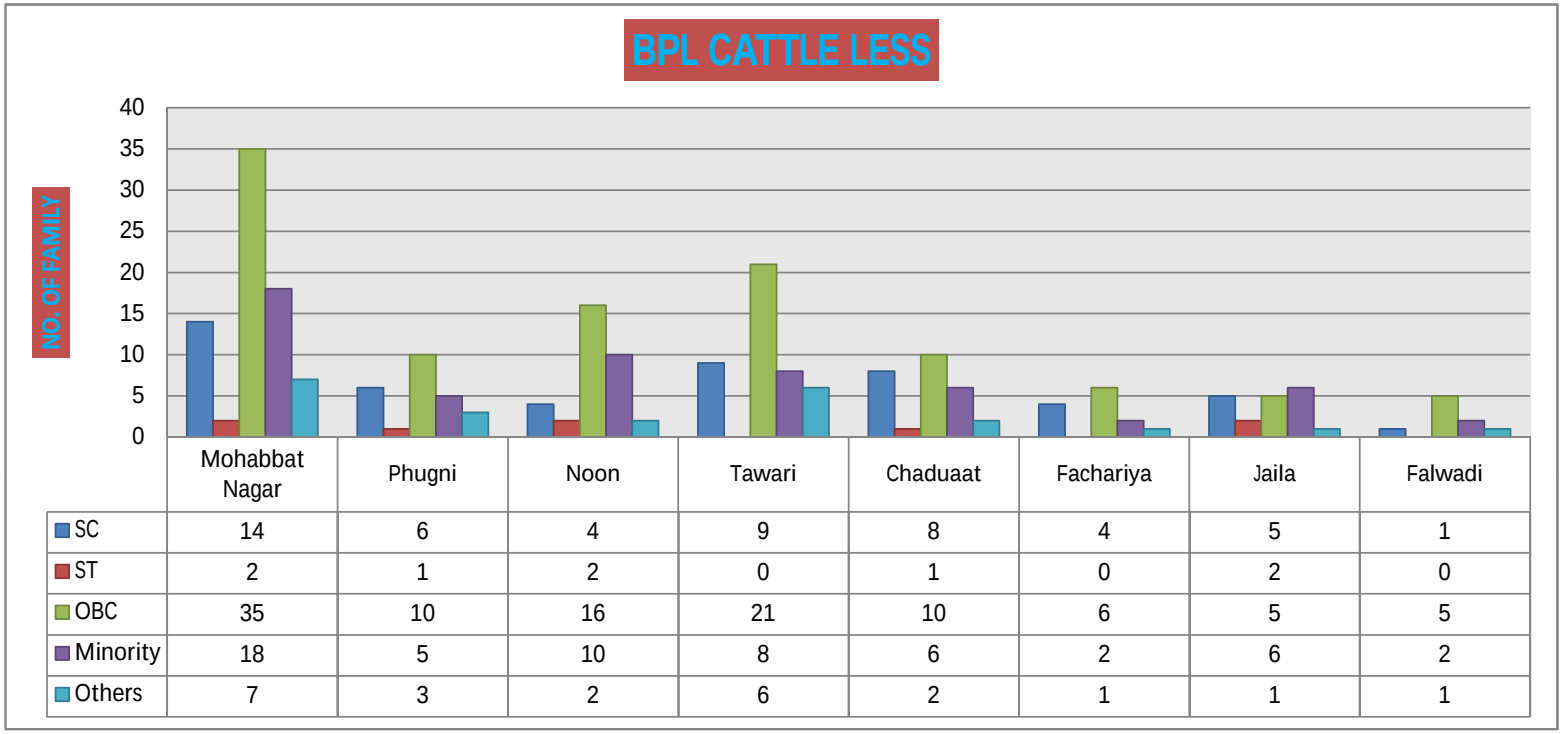
S. No	Block Name	Panchayat Name	Village Name	SC	ST	OBC	Minority	Others	Total
1	fl jkgh	Ekkgcruxj	Mohabbat Nagar	33	3	86	45	16	**183**
2	fl jkgh	Qxuh	Phugni	13	1	25	12	7	**58**
3	fl jkgh	Qxuh	Noon	10	3	40	24	4	**81**
4	fl jkgh	rojh	Tawari	22	0	51	19	14	**106**
5	fl jkgh	rojh	Chaduaat	20	1	24	15	3	**63**
6	fl jkgh	rojh	Fachariya	9	0	14	3	2	**28**
7	fl jkgh	tyk	Jaila	11	3	12	14	2	**42**
8	fl jkgh	tyk	Falwadi	1	0	12	5	1	**19**
TOTAL				**119**	**11**	**264**	**137**	**49**	**580**



	Mohabbat Nagar	Phugni	Noon	Tawari	Chaduaat	Fachariya	Jaila	Falwadi
SC	33	13	10	22	20	9	11	1
ST	3	1	3	0	1	0	3	0
OBC	86	25	40	51	24	14	12	12
Minority	45	12	24	19	15	3	14	5
Others	16	7	4	14	3	2	2	1
Total	183	58	81	106	63	28	42	19

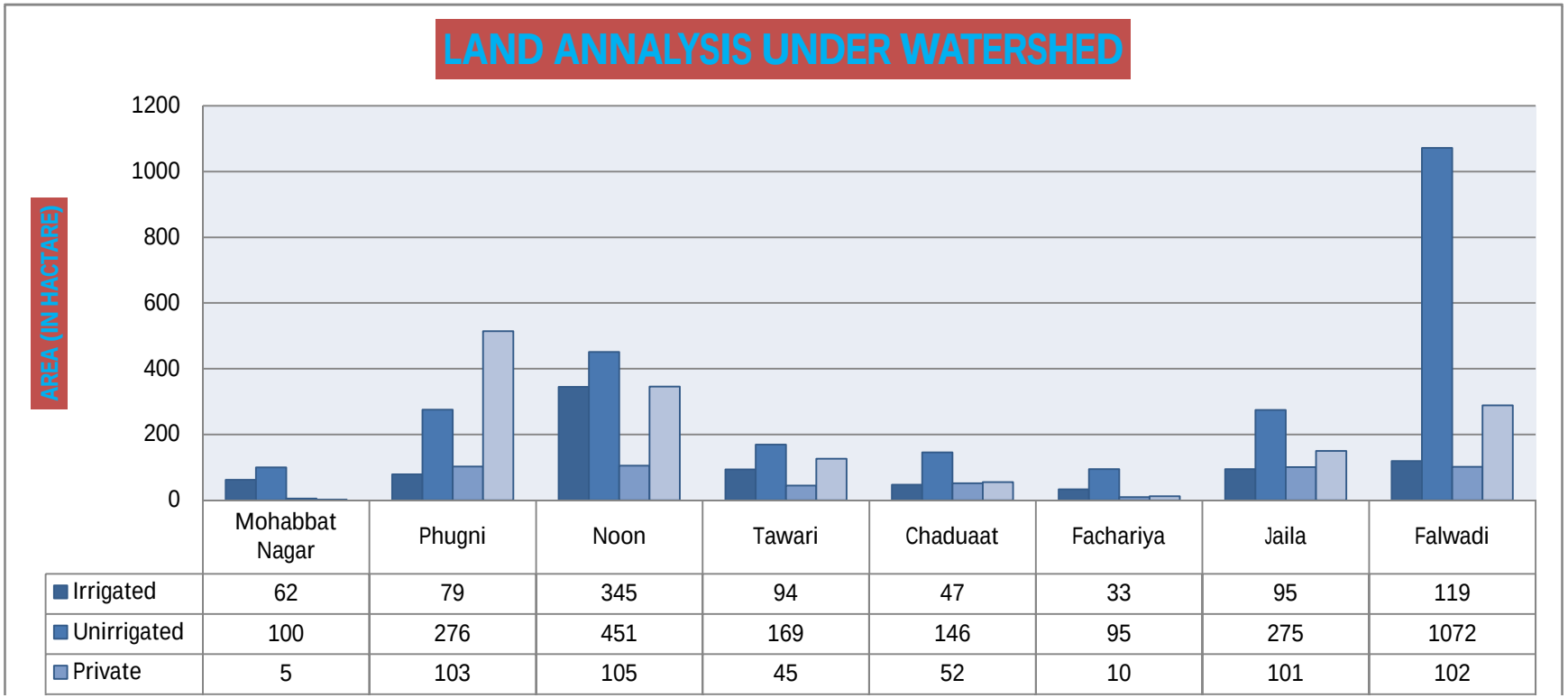
SIROHI (IWMP - III) W/S 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)
AS PER BASE LINE SURVEY
i'kqugqu BPL ifjokj

S. No	Block Name	Panchayat Name	Village Name	SC	ST	OBC	Minority	Others	Total
1	fljkgh	Ekkgcruxj	Mohabbat Nagar	14	2	35	18	7	**76**
2	fljkgh	Qxuh	Phugni	6	1	10	5	3	**25**
3	fljkgh	Qxuh	Noon	4	2	16	10	2	**34**
4	fljkgh	rojh	Tawari	9	0	21	8	6	**44**
5	fljkgh	rojh	Chaduaat	8	1	10	6	2	**27**
6	fljkgh	rojh	Fachariya	4	0	6	2	1	**13**
7	fljkgh	tyk	Jaila	5	2	5	6	1	**19**
8	fljkgh	tyk	Falwadi	1	0	5	2	1	**9**
TOTAL				**51**	**8**	**108**	**57**	**23**	**247**



SIROHI (IWMP - III) W/S 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)
tyxg.k fl= e vku ola xko dh Hkfe fooj.k

d- l-	xke ipk;r				vdf"k Hkfe		mipkj d fy, miyC/k	;kx	mipkj d fy, miyC/k ugh
		Village Name	Irrigated	Unirrigated	Private	Government			
1	Ekkgcruxj	Mohabbat Nagar	62	100	5	2	169	3099	2930
2	Qxuh	Phugni	79	276	103	514	972	972	0
3	Qxuh	Noon	345	451	105	346	1247	1665	418
4	rojh	Tawari	94	169	45	126	434	1315	881
5	rojh	Chaduaat	47	146	52	55	300	893	593
6	rojh	Fachariya	33	95	10	12	150	485	335
7	tyk	Jaila	95	275	101	150	621	865	244
8	tyk	Falwadi	119	1072	102	289	1582	2571	989
TOTAL			**874**	**2584**	**523**	**1494**	**5475**	**11865**	**6390**



Basic Information formats for DPR

Identification

S.No.	Name of Project	-	IWMP-III SIROHI
(a)	Name of Catchment	-	Kapal Ganga River Basin
(b)	Name of watershed area	-	IWMP-III SIROHI
(c)	Project Area	-	5475 Ha.
(d)	Cost of Project	-	657.00 Lacs
(e)	cost/hectare	-	12000/- per ha
(f)	Year of Sanction	-	2010-2011
(g)	Watershed Code	-	061106/1, 2, 3, 4, 5
(h)	No. of Gram Panchayatsin project area	-	Mohabbat Nagar, Phugni, Jaila, Tawari
(i)	No. of villages in project area	-	8 No
(j)	Type of Project	-	Other
(k)	Elevation (metres)	-	140 m
(l)	Major streams	-	10 km length
(m)	Slope range (%)	-	1-4%

S. No.	Name of Gram Panchayat	Name of Villages Covered	Census code of villages	Total Area in (Ha)	Area in W/S (Ha)
1	Mohabbat Nagar	1. Mohabbat Nagar	819000202351200	3099	169
2	Jaila	1. Jaila	819000202354500	865	621
		2. Phalwadi	819000202354600	2571	1582
3	Phugni	1. Noon	819000202353700	1665	1247
		2. Phugni	819000202353600	972	972
4	Tawari	1. Chadooal	819000202353400	893	300
		2. Phachariya	819000202353300	485	150
		3. Tawari	819000202353500	1315	434
TOTAL				**11865**	**5475**

Climatic and Hydrological information

Name of Agroclimatic Zone

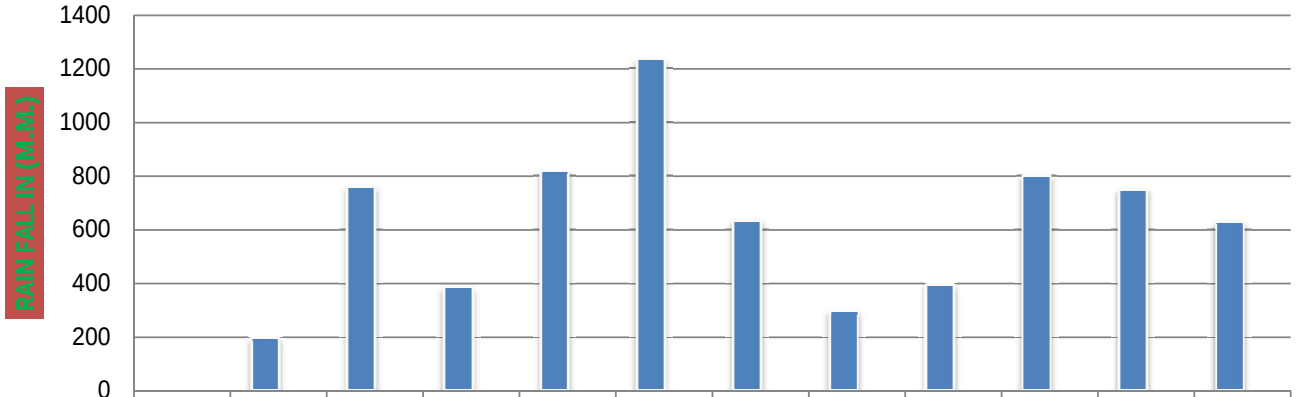
1 **Average Annual Rainfall(mm)**

	Year	Average Annual Rainfall(mm)
1	2002	196.00
2	2003	760.00
3	2004	386.00
4	2005	818.30
5	2006	1234.40
6	2007	635.50
7	2008	298.30
8	2009	395.80
9	2010	801.30
10	2011	751.40
	Av.	**627.70**

2 **Avg Monthly rainfall (last ten years)**

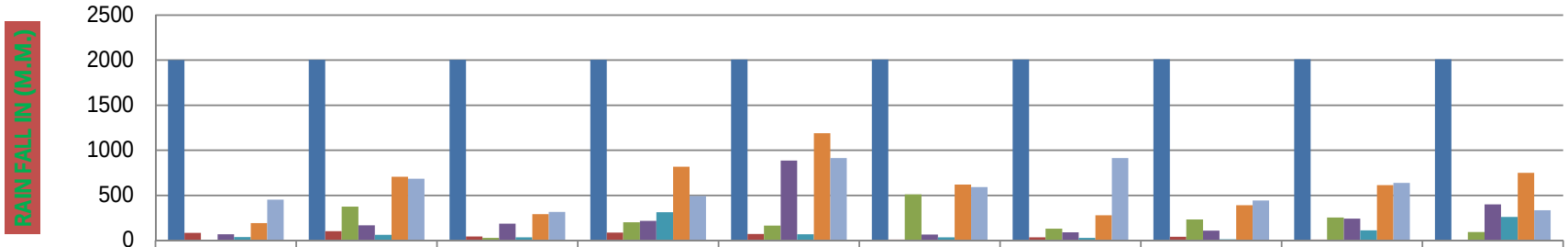
S.No	Year	Month				Total	Average
		June	July	August	September		
1	2002	84.80	1.00	68.20	38.20	192.20	452.00
2	2003	103.00	374.00	166.00	63.00	706.00	684.00
3	2004	43.00	27.00	186.00	34.00	290.00	317.00
4	2005	87.80	198.20	218.00	314.30	818.30	493.50
5	2006	72.00	161.00	887.00	69.40	1189.40	913.00
6	2007	9.20	509.60	65.70	33.80	618.30	590.67
7	2008	34.20	127.10	89.80	27.40	278.50	913.33
8	2009	40.60	230.00	108.80	12.20	391.60	443.33
9	2010	10.00	251.20	240.80	110.70	612.70	637.87
10	2011	0.00	89.40	399.40	260.20	749.00	335.67
	Total	**484.60**	**1968.50**	**2429.70**	**963.20**	**5846.00**	**5780.37**

10 YEAR RAIN FALL DATA



	Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	Av.
Series1	0	196.00	760.00	386.00	818.30	1234.4	635.50	298.30	395.80	801.30	751.40	627.70
Series2												

RAIN FALL MONTHLY



	1	2	3	4	5	6	7	8	9	10
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
June	84.80	103.00	43.00	87.80	72.00	9.20	34.20	40.60	10.00	0.00
July	1.00	374.00	27.00	198.20	161.00	509.60	127.10	230.00	251.20	89.40
August	68.20	166.00	186.00	218.00	887.00	65.70	89.80	108.80	240.80	399.40
September	38.20	63.00	34.00	314.30	69.40	33.80	27.40	12.20	110.70	260.20
Total	192.20	706.00	290.00	818.30	1189.40	618.30	278.50	391.60	612.70	749.00
Average	452.00	684.00	317.00	493.50	913.00	590.67	913.33	443.33	637.87	335.67

3 **Temperatue (Degree C)**

	Season		Max	Min
	i) Summer Season		48	31
	ii) Winter Season		23	5
	iii) Rainy Season		38	17
4	Runoff			
	i) Peak Rate (cum/hr)			
	ii) Total run off volume of rainy season (ha.m.)			
	iii) Time of return of maximum flood	5 years	10 years	In-Year
	iv)Periodicity of Drought in village area	468.8	416.5	569
5	Sediment Production Rate(SPR)(ha-m/100sq km/year		22 Q/ha /year	

6 **Slope of Watershed**

S.No.	Slope percentage	Area in hectares	Average soil loss (Tonnes/ ha/ year)
1	0 to 3%	3505 Ha	20.00
2	3 to 8%	1410 ha	
3	8 to 25%	560 ha	
4	> 25%	0	

7 **Erosion status in project Area**

S.No.	Cause	Type of erosion	Area affected (ha)	Run off (mm/ year)
	Water erosion			
	a	Sheet	3450	86
	b	Rill	1175	
	c	Gully	850	
	Sub-Total		**5475**	
	Wind erosion		0	NA
	Total for project		5475	

A. Soil Profile

S.No.	Major Soil Classes	Area in hectares
1	Fine Loam	850
2	Silt Loam	3450
3	Degraded	1175
	Total	**5475**

B. Soil Depth :

	Depth (Cms.)	Area in hectares
1	0.00 to 7.50	850 Ha
2	7.50 to 45.00	1175 Ha
3	> 45.00	3450 HA
E	Soil fertility Status	Kg/ha
	N	127
	P	17.9
	K	182
	Micronutrients	PPM

Social group wise Details of agriculture

S. No	Gram panchayat	Village	Gen. Household	Area	SC Household	Area	ST Household	Area	OBC Household	Area	Total of HH	Total Area
1	Mohabbat Nagar	1. Mohabbat Nagar	56	15	111	29	10	3	437	115	614	162
2	Jaila	1. Jaila	8	21	37	96	10	26	87	227	142	370
		2. Phalwadi	3	55	6	110	0	0	56	1026	65	1191
3	Phugni	1. Noon	15	43	35	101	10	29	215	622	275	796
		2. Phugni	25	46	44	80	3	5	123	224	195	355
4	Tawari	1. Chadooal	10	9	67	61	4	4	131	119	212	193
		2. Phachariya	8	11	29	39	0	0	57	78	94	128
		3. Tawari	47	35	74	55	0	0	235	174	356	263
Total			**172**	**234**	**403**	**572**	**37**	**67**	**1341**	**2585**	**1953**	**3458**

Social group wise Details of agriculture (UNIRRIGATED)

S. No	Gram panchayat	Village	Gen. Household	Area	SC Household	Area	ST Household	Area	OBC Household	Area	Total of HH	Total Area
1	Mohabbat Nagar	1. Mohabbat Nagar	56	9	111	18	10	2	437	71	614	100
2	Jaila	1. Jaila	8	15	37	72	10	19	87	168	142	275
		2. Phalwadi	3	49	6	99	0	0	56	924	65	1072
3	Phugni	1. Noon	15	25	35	57	10	16	215	353	275	451
		2. Phugni	25	35	44	62	3	4	123	174	195	276
4	Tawari	1. Chadooal	10	7	67	46	4	3	131	90	212	146
		2. Phachariya	8	8	29	29	0	0	57	58	94	95
		3. Tawari	47	22	74	35	0	0	235	112	356	169
Total			**172**	**171**	**403**	**419**	**37**	**44**	**1341**	**1949**	**1953**	**2584**

Ownership wise of land use in Watershed

S. No	Land use	Total area in Ha.			
		Govt.	Pvt.	Community	Total
1	Agriculture land	0	3458	0	3458
2	Forest land	0	0	0	0
3	Waste land		523	974	1497
4	Pastures	520	0	0	520
5	Others	0	0	0	0
	Total	520	3981	974	5475

Availability of drinking water

S.No	Gram panchayat	Village	No. of months in a year	Source of drinking water	Quality
1	Mohabbat Nagar	1. Mohabbat Nagar	10	Well, Hand Pump & Tube well	Saline Water
2	Jaila	1. Jaila	3	Well, Hand Pump & Tube well	Saline Water
		2. Phalwadi	4	Well, Hand Pump & Tube well	Saline Water
3	Phugni	1. Noon	5	Well, Hand Pump & Tube well	Saline Water
		2. Phugni	9	Well, Hand Pump & Tube well	Saline Water
4	Tawari	1. Chadooal	2	Well, Hand Pump & Tube well	Saline Water
		2. Phachariya	11	Well, Hand Pump & Tube well	Saline Water
		3. Tawari	4	Well, Hand Pump & Tube well	Saline Water

Cattle and Animal Population

S.No.	Description of animals	Population in No	Yield (milk in lit.)
1	Cows		
A	Indegeneous	4053	20265
B	Hybrid	1760	21120
C	Ox	571	0
2	Buffaloes	3921	23526
3	Bull	678	0
4	Sheep	8647	0
5	Goat	2730	1365
6	Others	2084	0
	Total	**24444**	**66276**

Availability of fodder (Quintals)

Deficiency of fodder (Quintals)

Abstract of cropped Area (ha)

S.No	Gram panchayat	Village	Area under Single crop	Area under Double crop
1	Mohabbat Nagar	1. Mohabbat Nagar	100	62
2	Jaila	1. Jaila	275	95
		2. Phalwadi	1072	119
3	Phugni	1. Noon	451	345
		2. Phugni	276	79
4	Tawari	1. Chadooal	146	47
		2. Phachariya	95	33
		3. Tawari	169	94
TOTAL			**2584**	**874**

Socio-Economic Parameters

1 Household and Economic Activity

S.No.	Description of	Total No. hosehold	Population in No.	SC		ST		OTHERS		TOTAL	
			Total	No.of.h.h.	Members	No.of.h.h.	Members	No.of.h.h.	Members	No.of.h.h.	Members
1	2	3	4	5a	5b	6a	6b	7a	7b	8a	8b
(i)	Cultivatours	1953	11113	403	2294	37	211	1513	8609	1953	11114
(ii)	Dairying	2121	12069	439	2498	43	245	1639	9326	2121	12069
(iii)	Landless Agri. Laboures	748	4257	155	882	17	97	576	3278	748	4257
(iv)	BPL	368	2094	76	433	8	46	284	1616	368	2095

h.h.= house hold

Indicate only Households with main occupation in the case of more than one occupation in a Household.

Indicate against the occupation with income than 50%

Details of infrastructure in the project areas

	Parameters	Status			
(i)	No. of villages connected to the main road by an all- weather road	3 No			
(ii)	No. of villages provided with electricity	8 No			
(iii)	No. of household without access to drinking water				
(iv)	No. of educational institutions:				
	Primary(p)/ Secondary (S)/ Higher Secondary(HS) Vocational institution(VI)	(P) 8 No	(S) 2No	(HS) 0	(VI) 0
(v)	No. of villages with access to Primary Health center	4 No			
(vi)	No. of villages with access to Veterinary Dispensary	3 No			
(vii)	No. of villages with access to Post Office	3 No			
(viii)	No. of villages with access to Banks	1			
(ix)	No. of villages with access to Markets / mandis	2			
(x)	No. of villages with access to Agro-industries	0			
(xi)	Total quantity of surpls millk				
(xii)	No. of millk collection centers	2			
	(e.g.union (u)/Society (S)/ Private agency(PA)/ others(O).	(U)	(S) 2No	(PA)	(O)
(xiii)	No. of villages with access to Anganwadi center	3 No			
(xiv)	Any other facilities with no. of village (please specify	0			
(xv)	Nearest KVK	SIROHI			
(xvi)	Coperative society	2 No			
(xvii)	NGOS	0			
(xviii)	Credit institutions	0			
	(i)Bank	3 No			
(xix)	Agro Service center's	0			

jkM ei

d- l-	ijkeh Vj	ifj;ktuk {k= e ¼ifj;ktuk io½		ifj;ktuk vof/k mijkUr of) dk iLrkfor Lrj@vkdyu	
1	ty l lEcfU/kr ¼eh Vj½				
(I.)	dvk e vkIr ty Lrj	dvk dh xgjkb		dvk dh xgjkb	
(i.)	**SIROHI - IWMP III**	12.20 M. (xgjkb)		11.00 M. (xgjkb)	
2	df"k l lEcfU/kr				
(i.)	tyxg.k e ck;k x;k dy {k=Qy ¼gDV;j½	2778		3102	
(ii.)	tyxg.k {k= e uV cvkb {k= ¼gDV;j½	3102		3540	
(iii.)	tyxg.k {k= e yh tku okyh fofHkUu Qly ¼itkfrokj½	ifj;ktuk io Qlyokj		ifj;ktuk vof/k mijkUr Qlyokj	
		tkr {k= ¼gDV;j½	fDoVy ifr gDV;j mRiknu	tkr {k= ¼gDV;j½	fDoVy ifr gDV;j mRiknu
	MAIZE	1144	18.50	1217	30.00
	URAD	326	10.60	347	13.00
	MUNG	310	6.00	330	5.00
	TIL	227	6.50	295	8.00
	GWAR	179	15.40	190	18.00
	JWAR	-	-	-	45.00
	KAPAS	163	10.00	173	22.00
	WHEET	326	25.00	347	22.00
	CHANA	65	11.00	69	30.00
	SARNSO	196	10.00	208	12.00
(iv.)	to mojdk d mi;kx dh fLFkfr	oreku e		ifj;ktuk vof/k mijkUr	
		20%		60%	
(v.)	pkjk mRiknu ¼fdLeokj]fDoVy½	oreku e		ifj;ktuk vof/k mijkUr	
	MAIZE	45760		48680	
	WHEET	11410		12145	
	JWAR	-		11160	
	CHANA	520		552	
	PASTURE LAND	5000		15000	
	TOTAL	**62690**		**87537**	

3	m/kkfudh l lEcfU/kr ¼itkfrokj½	ifj;ktuk io itkfrokj			ifj;ktuk vof/k mijkUr itkfrokj		
		l[;k	fDo-@iM	mRiknu ¼fDoVy½	l[;k	fDo-@iM	mRiknu ¼fDoVy½
(i.)	vke	50	2.00	100	50	2.00	100
(ii.)	uhc	110	0.50	55	5650	0.50	2825
(iii.)	vkoyk	400	0.50	200	2740	0.50	1370
(iv.)	lUrjk	80	0.75	60	860	1.00	860
(v.)	iihrk	80	0.30	24	100	0.30	30
(vi.)	djknk	25	0.30	8	316825	0.30	95048
(vii.)	ve:n	50	0.30	15	282	0.30	85
(viii.)	cj	75	0.50	38	75	0.50	38
(ix.)	tkeu	8	3.00	24	8	3.00	24
(x.)	vukj	10	0.30	3	1570	0.30	471

4	df"k okfudh ¼itkfrokj½	ifj;ktuk io itkfrokj		ifj;ktuk vof/k mijkUr itkfrokj	
		dy l[;k	ik/k ifr gDV;j	dy l[;k	ik/k ifr gDV;j
	df"k ;kX; Hkfe ¼itkfrokj½	27918	9	344322	111
	pkjkxkg Hkfe ¼itkfrokj½	34409	19	62509	35
	ou Hkfe ¼itkfrokj½				
	flok; pd ¼itkfrokj½				
	dy				

4	i'kikyu l lEcfU/kr	oreku e	ifj;ktuk vof/k mijkUr
(i.)	ldj itkfr d i'kvk dh l[;k ¼itkfrokj½ xk;		
(ii.)	vklr nX/k mRiknu ifr i'k ¼itkfrokj½ fd-xk- e	3.20 KG	7.50 KG
(iii.)	i'kvk e ikb tku okyh chekfj;k d uke ¼l[;k e deh½	xy?kkV o [kjid]egid	NIL
6	lkekftd & vkfFkd	oreku e	ifj;ktuk vof/k mijkUr
(I.)	ifr ifjokj vklr vkenuh	20000	55000
(II.)	Lo; lgk;rk leg		
(i.)	dy Lo; lgk;rk leg dh l[;k		46
(ii.)	dy lnL;k dh l[;k		460
(iii.)	dy cpr jkf'k		
(iv.)	t-x- ifj;ktuk l lgk;rk ¼jkf'k½		4.60 Lac.
(v.)	cd fydt ¼jkf'k½		Lac.

WATER BUDGET

WATERSHED IWMP-III - 6/1,2,3,4,5

P.S. SIROHI DISTT. SIROHI (RAJ.)

627.70 mm. AV. RAIN FALL

1	TOTAL AREA	5475	HAC.			CUM.
2	CULTIVATED LAND (Bad Catchment)	3458	3458	0.0635	10000	2195053
3	PASTURE LAND (Average Catchment)	520	520	0.0952	10000	495131
4	NONARBLE (Good Catchment)	1497	1497	0.127	10000	1900517.55
						4590702
5	EXT. STUCTURE	NADI+TALAB+ANICUT			(-)	266372
6	STORAGE BY PROPOSED STUCTURE					
	1. NADI IN PD BLOCK	4	5000		(-)	20000
	2. FARM POND	16	500		(-)	8000
	3. BY STRUCTURE	15	2750		(-)	41250
					TOTAL RUN OFF TRAPPED	335622
					% OF RUN OFF TRAPPE	7.31

STRANGE'S - TABLE

Total Monsoon rainfall in mm	Good Catchment Area		Average Catchment Area		Bad Catchment Area	
	% of runoff to rainfall	Depth of run-off due to rainfall in mm.	% of runoff to rainfall	Depth of run-off due to rainfall in mm.	% of runoff to rainfall	Depth of run-off due to rainfall in mm.
1	2	3	4	5	6	7
20	0.080	0.016	0.06	0.012	0.04	0.008
40	0.130	0.052	0.0975	0.039	0.065	0.026
60	0.245	0.147	0.17375	0.11025	0.1225	0.0735
80	0.410	0.328	0.3075	0.2560	0.205	0.164
100	0.700	0.700	0.525	0.525	0.350	0.350
120	0.900	1.080	0.675	0.810	0.450	0.540
140	1.1225	1.715	0.91875	1.28625	0.6125	0.8575
160	1.625	2.600	1.21875	1.950	0.8125	1.30
180	2.120	3.186	1.5900	2.862	1.060	1.908
200	2.700	5.400	2.025	4.050	1.350	2.70
220	3.260	7.172	2.445	5.379	1.630	3.586
240	3.810	9.144	2.8575	6.858	1.905	4.752
260	4.450	11.57	3.3375	8.6775	2.225	5.785
280	5.190	14.532	3.3925	10.899	2.595	7.266
300	5.900	17.700	4.425	13.275	2.95	8.85
320	6.720	21.504	5.040	16.126	3.36	10.752
340	7.750	25.738	5.6775	19.3035	3.785	12.869
360	8.550	30.780	6.4125	23.085	4.275	15.39
380	9.450	36.910	7.0876	27.6825	4.725	18.455
400	10.250	41.000	7.6875	30.750	5.125	20.50
420	11.050	46.410	8.2875	34.8075	5.525	23.2057
440	12.000	52.800	9.000	39.600	6.00	26.40
460	12.950	59.570	9.7125	44.6775	6.475	29.786
480	13.900	66.720	10.425	50.040	6.950	33.360
500	14.700	73.500	11.025	55.125	7.350	36.750
520	15.500	80.600	11.625	60.450	7.750	40.300
540	16.360	88.290	12.2625	66.2175	8.175	44.145
560	17.200	96.320	12.900	72.240	8.600	48.16
580	18.000	104.000	13.500	78.000	9.000	52.00
600	19.000	114.000	14.250	85.500	9.500	57.00
620	19.880	123.256	14.910	92.444	9.940	61.628
640	20.760	132.864	15.570	99.648	10.380	66.432
660	21.640	142.824	16.210	107.118	10.820	71.412
680	22.520	153.136	16.890	114.852	11.260	76.568
700	23.400	163.800	17.550	122.850	11.700	81.900
720	24.280	174.816	18.210	131.112	12.140	86.408
740	25.160	189.440	18.870	142.080	12.580	94.720
760	26.040	197.907	19.530	148.428	13.020	98.952
780	26.920	209.976	20.190	157.482	13.460	104.988
800	27.800	222.400	20.850	166.800	13.900	111.200
820	28.680	235.176	21.570	176.382	14.380	117.588
840	29.560	248.304	22.170	186.228	14.780	124.152
860	30.440	251.784	22.830	196.338	15.220	130.892
880	31.320	275.610	23.490	206.7075	15.660	137.805
900	32.200	289.800	24.150	217.350	16.100	144.900

mi lfefr	A/c No	
1-Qx.kh	61135750693	S.B.B.J dkyUnh
2-ekgCcr uxj	61146365701	S.B.B.J dkyUnh
3-rojh	61147649657	S.B.B.J dkyUnh
4-tyk	61148462339	S.B.B.J dkyUnh

lfpo	deVh	xke ipk;r
1-tyk	ioh.k dekj	Hkjr d.Myk
2-rojh	fgEerjke	d".kkjk.kk
3-ekgCcr uxj	fueydekj	ukjk;.k flg gkMk
4-Qx.kh	irkiflg	pEir dekj

IWMP – 2010-11

dl	Xkke ipk;r	Lkjip dk uke	deVh lfpo	v/;{k dk uke	Lkfpo xke ipk;r
1	Qx.kh	Jherh rhtk ckb	lkrki flg	vtu flg	pEir dekj
2	Rkojh	dpu noh jkor	fgEEkr jke	vejkjke dkyoh	d'.k jk.kk
3	tyk	fd;k noh	ioh.k dekj	Ekxy flg	Hkjr dekj d.Myk
4	ekgCcr uxj	nfj;k	fuey dekj	Rkylkjke ?kkph	Ukkjk;.k gkMk

v- /LFkkxr 0;oLFkk,

v&1 MCY;MhVh d lnL;

1 vfHk;kfU=dh lox d fy, Jh

2 df"k lox d fy, Jh

3 i'kikyu lox d fy, Jh

4 lkekftd foKku lox d fy, Jh

v&2 xke ipk;rokj] ljip lfpo dk fooj.k

d l-	xke ipk;r dk uke	ljip dk uke	lfpo@xke lod dk uke
1	Qx.kh	Jherh rhtk ckb	Jh pEir dekj

v&3 ,dhdr tyxg.k ic/ku ;ktuk & Qx.kh ipk;r

(i.) xke lHkk dh fnukd &

v&4 I. W. M. P. gr Qx.kh ipk;r dh tyxg.k milfefr dk fooj.k

d l-	lnL; dk uke	J.kh	in
1	Jh vtu flg @ gfjflg th	lkekU;	v/;{k
2	Jherh rhtk noh ?kkph	vfio	lnL;@ljip
3	Jh [krkjke @ tlk th ?kkph	vfio	lnL;
4	Jh dky th @ Hk[kkth ijkfgr	lkekU;	lnL;
5	Jh enuflg @ Hkjkflg yu	lkekU;	lnL;
6	Jh ekgu yky th @dljth lFkkj	vfio	lnL;
7	Jh nlkjke @ ykyk th ?kkph	vfio	lnL;
8	Jh irkijke @ oykth xx	vtk	lnL;
9	Jh irkiflg @:lkflg uu	lkekU;	lnL;
10	Jh erjk jke @ ijkth Hkhy	vttk	lnL;
11	Jh lfj;k @ vejk th ykgkj	vfio	lnL;
12	Jh gouh @ lnukth ?kkph	vtk	lnL;
13	Jh yhy @ Qykjke e?koky	vtk	lnL;
14	Jh xkfoUnjke @ ijdkth ljxx	vtk	lnL;
15	Jh pEikyky th ruxkfj;k		l-v-i-l-fljkgh

v & 1 xfrfof/kokj@defV;k dk fooj.k dk fooj.k

¼1½miHkkDrk leg ¼lk'k/ku o fodkl nj ½

d l-	v/;{k@lnL;k d uke	xko dk uke
1	Jh nnkth @ lcykth jckjh	uu
2	Jh :ikle @ykdkth jckjh	Qx.kh
3	Jh lkekjke Hkhy	uu
4	Jh iklkjke @ /kekth fgjkxj	Qx.kh
5	Jh xtth @ fgfnth ?kkph	uu

¼2½Qly in'ku o ckxokuh miHkkDrk leg

d l-	v/;{k@lnL;k d uke	xko dk uke
1	Jh ckckth @ ujlkth ?kkph	uu
2	Jh >rkuflg @ txrflg	uu
3	Jh jruflg @ irkiflg	uu
4	Jh Hkoj doj @dj.k flg	Qx.kh
5	Jh cpukjke @ dkyth ijkfgr	Qx.kh
6	Jh jkbxkjke @ Hkckth ijkfgr	Qx.kh

¼3½ukyk fuek.k o ckxokuh miHkkDrk dUn

d l-	v/;{k@lnL;k d uke	xko dk uke
1	Jh ik: @ ckc th ijkfgr	Qx.kh
2	Jherh lurh @ 'kkfr yky ekyh	Qx.kh
3	Jh lfork @je'k xx	Qx.kh
4	lHkVh @ e?kkjke e?koky	uu
5	Jh tkxkjke @ Hkrkth Hkhy	uu

¼4½ pkjkxkg fodkl miHkkDrk leg

d l-	v/;{k@lnL;k d uke	xko dk uke
1	Jh ekgu yky @ckcjkth e?koky	Qx.kh
2	Jh gfjfljk @ ljnkj flg	uu
3	Jh rkykjke @ Hkkukth jckjh	uu
4	Jh pUnkjke @ uhukth ?kkph	uu
5	Jh /kdflg @ fgeflg jktir	uu

v & 1 xfrfof/kokj@legokj Lo; lgk;rk legk dk fooj.k

¼5½ gueku th ¼,l-,p-th½

d l-	v/;{k@lnL;k d uke	xko dk uke
1	Jh lfj;k @ vejkjke ygkj	uu
2	Jh yhy @ Qykjke e?koky	Qx.kh
3	Jh bouh @lnoku e?koky	uu
4	Jh y: @ txkjke e?koky	Qx.kh
5	Jh uu @lkekjke e?koky	

¼6½Jh lkx'oj ¼,l-,p-th½

d l-	v/;{k@lnL;k d uke	xko dk uke
1	Jherh truk @ vkckjke jckjh	uu
2	Jherh iklh @nnkjke jckjh	uu
3	Jh dkd @pUnkjke ?kkph	uu
4	Jherh Ådhjke @ thokjke jckjh	Qx.kh
5	Jh gfj;k @xkdykjke jckjh	Qx.kh

¼7½ o\tukFk ¼,l ,p th ½

d l-	v/;{k@lnL;k d uke	xko dk uke
1	Jherh lcVh @je'k xx	
2	Jherh yhy @Qykjke e?koky	Qx.kh
3	Jherh lxuh @ ijkjke xx	Qx.kh
4	Jherh ik: @ckc yky ijkfgr	Qx.kh
5	Jherh lrk"k @ fnu'k ijkfgr	Qx.kh

¼8½ ckckjkeno ,l ,p th

d l-	v/;{k@lnL;k d uke	xko dk uke
1	Jh teuk @Hkxokukjke e?koky	Qx.kh
2	Jherh et @ojnkjke [kokl	Qx.kh
3	Jherh pnk @ vkVkjke [kokl	Qx.kh
4	Jherh dkd @pUnkjke ?kkph	uu
5	Jherh ldh @ dUg;k yky ijkfgr	uu

¼8½ vk'kkijk ¼,l-,p-th½

d l-	v/;{k@lnL;k d uke	xko dk uke
1	Jherh yhy @ Qykjke e?koky	
2	Jherh puh @ Fkkukjke	
3	Jherh /kuh @ekukth	
4	Jherh xjh @ydkjke th	
5	Jh nkjeth @ gfjjke th	

v- /LFkkxr 0;oLFkk,

v&1 MCY;MhVh d lnL;

1 vfHk;kfU=dh lox d fy, Jh

2 df"k lox d fy, Jh

3 i'kikyu lox d fy, Jh

4 lkekftd foKku lox d fy, Jh

v&2 xke ipk;rokj] ljip lfpo dk fooj.k

d l-	xke ipk;r dk uke	ljip dk uke	lfpo@xke lod dk uke
1	ekgCcr uxj	Jherh nfj;knoh dykor	Jh ukjk;.k gkMk

v&3 ,dhdr tyxg.k ic/ku ;ktuk & ekgCcr uxj ipk;r

(i.) xke lHkk dh fnukd &

v&4 I.W.M.P. gr ekgCcr uxj ipk;r dh tyxg.k milfefr dk fooj.k

d l-	lnL; dk uke	J.kh	in
1	Jh rylhjke ?kkph	vfio	v/;{k
2	Jherh nfj;knoh dykor	vtk	lnL;@ljip
3	Jh njekjke ?kkPkh	vtk	lnL;
4	Jherh lx;h noh ?kkPkh	vtk	lnL;
5	Jherh veh;k noh e?koky	vtk	lnL;
6	Jh erh txkjke @ekth th dEgkj	vfio	lnL;
7	Jh Qlkjke @ mdkth e?koky	vtk	lnL;
8	Jh vej flg @Fkkuflg jktir	lkekU;	lnL;
9	Jh iHkjk;e @ :xukFk th Hkhy	vttk	lnL;
10	Jh vej flg @d'kk flg	lkekU;	lnL;
11	Jh nykjke @t;kth ekyh	vfio	lnL;
12	Jh jrkjke @ txrkth dEgkj	vfio	lnL;
13	Jh Nkxkjke @ eY;kth ?kkph	vtk	lnL;
14	Jh 'kdj flg @x.k'kth jko.kk jktir	vfio	lnL;
15	Jh pEikyky ruxkfj;k		l-v-i-l-fljkgh
16	Jh fuey dekj e?koky	vtk	lnL;

v & 1 xfrfof/kokj@defV;k dk fooj.k dk fooj.k

¼1½ miHkkDrk leg ¼lk'k/ku o fodkl nj ½

d l-	v/;{k@lnL;k d uke
1	Jh vej flg @Fkkuflg jktir
2	Jh tCcj flg @ Fkkuflg jktir
3	Jh njxkjke ?kkph
4	Jh unjke ?kkph
5	Jh n'kkjke ?kkph

¼2½ Qly in'ku deVh

d l-	v/;{k@lnL;k d uke
1	Jh txekjke @ ekrh th dEgkj
2	Jh jrkjke @ ekrh th dEgkj
3	Jh [kX;kjke @ jktkth e?koky
4	Jh pkFkkjke Hkikth e?koky
5	Jh lkdyk th @ pkFkk th e?koky

¼3½ ckxokuh leg ¼dvk oky ½

d l-	v/;{k@lnL;k d uke
1	Jh ilkjke @mdkth e?koky
2	Jh lxth @ eh?kkth Hkhy
3	Jh fuFky @ tkxkjke e?koky
4	Jh e?kjke @ njjkth e?koky
5	Jh tnfu'k @ tk?kkjke th e?koky

¼4½ ukyk mipkj ¼leg½

d l-	v/;{k@lnL;k d uke
1	Jh iklkjke @ otkth e?koky
2	Jh veh; noh @ glkth e?koky
3	Jh 'kdj flg @ x.k'kth jko.kkjktir
4	Jh exu @ xeukth ekyh
5	Jh nykjke @ iukth e?koky

¼5½ eMcUnh dk; ¼leg½

d l-	v/;{k@lnL;k d uke
1	Jh iHk;jke @:iukFk th Hkhy
2	Jh je'k @xtkth e?koky
3	Jh eNkjke @ exkth e?koky
4	Jh foukjke @[kekth dEgkj
5	Jh ydekjke @ njHkkth dEgkj

¼6½pkjkxkg fodkl

d l-	v/;{k@lnL;k d uke
1	Jh nyir jke @ tikth ekyh
2	Jh Nkxk jke @ eykth ?kkNh
3	Jh gL;jke @ ukikth ?kkNh
4	Jh gL;jke @lkukth ?kkNh
5	Jh nkE;jke @iUUkkth e?koky

v- /LFkkxr 0;oLFkk,

v&1 MCY;MhVh d lnL; gLrk{kj

1 vfHk;kfU=dh lox d fy, Jh

2 df"k lox d fy, Jh

3 i'kikyu lox d fy, Jh

4 lkekftd foKku lox d fy, Jh

v&2 xke ipk;rokj] ljip lfpo dk fooj.k

d l-	xke ipk;r dk uke	ljip dk uke	lfpo@xke lod dk uke
1	tyk	Jherh fd;k noh	Jh Hkjr dekj d.Myk

v&3 ,dhdr tyxg.k ic/ku ;ktuk & tyk ipk;r

(i.) xke lHkk dh fnukd &

v&4 I. W. M. P. gr tyk ipk;r dh tyxg.k milfefr dk fooj.k

d l-	lnL; dk uke	in	xke
1	Jh exyflg @ihjflg jktir	v/;{k	Qyonh
2	Jh njtkjke @nkuk th jckjh	lfpo	Qyonh
3	Jh erh fd;k noh	lnL;@ljip	tyk
4	Jh jktkjke @xtkth e?koky	lnL;	Qyonh
5	Jh exyflg @d'kkyflg jktir	lnL;	Qyonh
6	Jh Nyflg @exyflg jktir	lnL;	Qyonh
7	Jh fujek @ y{e.k dekj ekyh	lnL;	Qyonh
8	Jh foukn doj @ dynhi flg	lnL;	Qyonh
9	Jherh gkfydk @vkeidk'k xx	lnL;	Qyonh
10	Jh xkjo/ku flg @ukikflg jktir	lnL;	Tkyk
11	Jh dlkjke @ Hkh[kkth gfjtu	lnL;	tyk
12	Jh uc @xxkjke e?koky	lnL;	tyk
13	Jherh tÅ @ ekgu yky Hkhy	lnL;	tyk
14	Jh tkjkjke @ rkjkjke Hkhy	lnL;	tyk
15	Jh glkjke @ ekjkth ekyh	lnL;	Qyonh

v & 1 xfrfof/kokj@defV;k dk fooj.k dk fooj.k

¼1½ckxokuh deVh

d l-	v/;{k@lnL;k d uke	J.kh	xko dk uke
1	Jh jkekjke ey @fgekth ekyh	vtk	Qyonh
2	Jh xkj/ku flg @Jh ukik flg jktir	lkekU;	tyk
3	Jh ykyflg @ Jh tgkj flg jktir	lkekU;	tyk
4	Jh dkyjke @ vpykth e?koky	vtk	tyk
5	Jh uukflg @ Jh vftr flg jktir	lkekU;	Qyonh

¼2½Qly in'ku deVh

d l-	v/;{k@lnL;k d uke	J.kh	xko dk uke
1	Jh gtkjh ey @fgekth ekyh	vfio	Qyonh
2	Jh y{e.k dekj @ dkukth ekyh	vfio	Qyonh
3	Jh 'kEHkflg @eukflg jktir	lkekU;	Qyonh
4	Jh tkjkth @ rtkth Hkhy	vttk	tyk
5	Jherh foukn doj @Jh dynhi flg jktir	lkekU;	Qyonh

¼3½ukyk fuek.k deVh

d l-	v/;{k@lnL;k d uke	J.kh	xko dk uke
1	Jh exy flg @ ihjkflg jktir	lkekU;	Qyonh
2	Jh fojdkjke @ nkuk th jckjh	vfio	Qyonh
3	Jh glkjke @ekjkth ekyh	vfio	Qyonh
4	Jherh tÅ @ ekgu yky Hkhy	vttk	tyk
5	xxk flg @ Jh lkgu flg jktir	lkekU;	Qyonh

¼4½eMcUnh deVh

d l-	v/;{k@lnL;k d uke	J.kh	xko dk uke
1	Jh thok @ vpykth jckjh	vfio	Qyonh
2	Jh xkdyjke @ dikuh jckjh	vfio	Qyonh
3	Jherh udl @xxkjke e?koky	vtk	tyk
4	Jh exykflg @Jh [k'kkyflg	lkekU;	Qyonh
5	Jh njtkjke @nkuk th jckjh	vfio	Qyonh

¼5½pkjkxkg fodkl deVh

dl-	v/;{k@lnL;k d uke	J.kh	xko dk uke
1	Jherh fujek @ y{e.k dekj ekyh	vfio	Qyonh
2	Jh Nyflg @ Jh exyflg jktir	lkekU;	Qyonh
3	Jh dlkjke @ Hkh[kkth gfjtu	vtk	tyk
4	Jh ickjke @ dpkjke jckjh	vfio	Qyonh
5	Jherh gkfydk @ vkeidk'k xx	vtk	Qyonh

¼6½lk'kikyu o lk'k/ku deVh

dl-	v/;{k@lnL;k d uke	J.kh	xko dk uke
1	Jh pkikjke @ vpykth jckjh	vfio	Qyonh
2	Jh vHk; flg @ Jh ijnk flg jktir	lkekU;	Qyonh
3	Jh Nykflg @ Jh cpu flg ¼Fkkuth ½	lkekU;	tyk
4	Jherh ie doj @ Jh jMekyflg jktir	lkekU;	tyk
5	Jh iklkjke @ dikth jckjh	vfio	Qyonh

v- /LFkkxr 0;oLFkk,

v&1 MCY;MhVh d lnL;

1 vfHk;kfU=dh lox d fy, Jh

2 df"k lox d fy, Jh

3 i'kikyu lox d fy, Jh

4 lkekftd foKku lox d fy, Jh

v&2 xke ipk;rokj] ljip lfpo dk fooj.k

d l-	xke ipk;r dk uke	ljip dk uke	lfpo@xke lod dk uke
1	rojh	Jh ftrUnflg pMoky	Jh d".k jk.kk

v&3 ,dhdr tyxg.k ic/ku ;ktuk & rojh ipk;r

(i.) xke lHkk dh fnukd &

v&4 I. W. M. P. gr rojh ipk;r dh tyxg.k milfefr dk fooj.k

d l-	lnL; dk uke	J.kh	in
1	Jh vejkjke dyoh	vfio	v/;{k
2	Jh ftrUn flg pMvky	lkekU;	lnL;@ljip
3	Jh yknk,e dyoh	vfio	lnL;
4	Jh 'kEHkflg @Hkkjflg	lkekU;	lnL;
5	Jh fgEerjke @[khekth e?koky	vtk	lnL;
6	Jherh Hkjhckb eikth dyoh	vtk	lnL;
7	Jh Hkxokukjk; @vtckth eVd	fofio	lnL;
8	Jh 'kikflg @ vthrflg HkkVh]pMkor	fofio	lnL;
9	Jh Nkxkjke pxkyh	fofio	lnL;
10	Jh gtk @ uFkkjke e?koky	vtk	lnL;
11	Jh ojp @pkxkth Hkhy	vtk	lnL;
12	Jherh ekiunoh @vk'kkjke e?koky	vtk	lnL;
13	Jhfo".kdekj @f'kojke th jkoy	lkekU;	lnL;
14	Jh ojnkjke e?koky	vtk	lnL;
15	Jh pEikyky th ruxkfj;k		l-v-i-l-fljkgh

v & 1 xfrfof/kokj@defV;k dk fooj.k dk fooj.k

¼1½lk'k/ku o miHkkDrk fodkl leg

d l-	v/;{k@lnL;k d uke	xko dk uke
1	Jh lknykth @mekth jckjh	
2	Jh vukjk; @mekth dyoh	rojh
3	Jh dlukth @mekth jckjh	Hknvky
4	Jh xkdy @lnkth jckjh	Qkph;k
5	Jh [krkth @ykdkth jckjh	

¼2½Qly in'ku miHkkDrk leg

d l-	v/;{k@lnL;k d uke	xko dk uke
1	Jh f'koflg @vftrflg HkkVh]pMkor	
2	uokjk; itkir	pMvky
3	Jh 'kEHkflg @ vkVflg	rojh
4	Jh fgEerjke @jdhekyh e?koky	rojh
5	Jherh yhyk noh @ ylkjke e?koky	
6	Jherh ltuk noh @ jlkth dyoh	rojh

¼3½ckxokuh miHkkDrk leg

d l-	v/;{k@lnL;k d uke	xko dk uke
1	Jh ohjkjke @tBkth ekyh	rojh
2	Jh nkyrflg @:iflg	rojh
3	Jh yknkjke @[kekth dyoh	
4	Jh rylhjke @tlkth pi	
5	Jh cNvkth @ukFkkth ekyh	pMvky
6	Jh Nkxkjke @[kxkjth e?koky	Qkpfj;k
7	Jh uFkkjke @Hkhekth e?koy	Qkpfj;k
8	Jh f'koukFk flg @ tBflg	rojh

¼4½ukyk mipkj

d l-	v/;{k@lnL;k d uke	xko dk uke
1	Jh vtu flg @ckyflg	rojh
2	Jh ekMkjk; @nkukth e?koky	pMvky
3	Jh vk'kkjk; @,uekth e?koky	
4	Jherh lhrk noh @ekgu e?koky	rojh
5	Jherh Hkjh noh @ Hkik,y dyoh	
6	Jh cjt @ xkxkjke Hkhy	pMvky
7	Jh fo".kdekj @f'ko,eth jkoy	rojh
8	Jh vejkjke @ohjkth dyoh]rojh	rojh

¼5½pkjkxkg fodkl miHkkDrk leg

d l-	v/;{k@lnL;k d uke	xko dk uke
1	Jh ckc yky @/kjek th dEgkj	pMvky
2	Jh ryhjke @ ekukth ijkfgr	Qkpfj;k
3	Jh iukjk; @ulkth dych	rojh
4	Jh b'oj yky @tlkth ijkfgr	
5	Jherh [kkjdh noh frjkxj	
6	Jh iukjk; @dlkth ykgkj	
7	lJh noh @eky,e e?koky	rojh
8	Jherh ghjhckb @dlkth e?koky	rojh
9	Jh ojnkjke @Hkikth e?koky	rojh

lefVor tyxg.k icU/ku ifj;ktuk vUrxr fljkgh tyxg.k {k= dh o"kokj okf"kd dk; ;ktuk

fty dk uke	fljkgh			dy ykxr jkf'k	1016.48
ipk;r lfefr dk uke	fljkgh			tyxg.k {k= l	657.00
tyxg.k {k= dk uke	fljkgh	IWMP - III		vU; ;ktuk l	359.48
dy ykxr jkf'k	657.00	yk[k			
mipkfjr fd;k tku okyk iLrkfor {k=Qy	5475	gDVj		ykxr ifr gDVj	0.19

d- l-	xfrfof/k dk uke	ifjokjk dh l[;k	TOTAL TARGET			From W/S			Other Scheme			Name of Other Scheme
			Hkkfrd y{;	;fuV	foRrh; y{;	Hkkfrd y{;	nj	foRrh; y{;	Hkkfrd y{;	nj	foRrh; y{;	
1	i'kkl fud ykxr 10%				65.7			65.7				
2	ekfuVfjx 1%				6.57			6.57				
3	bokY;'ku 1%				6.57			6.57				
4	io'k fcUn xfrfof/k 4%				26.28			26.28				
5	lLFkku o {ker fuek.k 5%				32.85			32.85				
6	foLrr ifj;ktuk ifronu1%				6.57			6.57				
	mi;kx				**144.540**			**144.540**				
7	**tyxg.k fodkl dk; pj.k 56%**	**367.920**										
1	df"k Hkkfe dk; ¼vflfpr½											
(i)	CVH(NRM) Ha.SC/ST/BPL	987	669	Ha	68.934	0	0.07254	0.000	669	0.1030	68.934	MNREGS
(ii)	CVH(NRM) Ha. Other		1915	Ha	138.914	1915	0.07254	138.914		0.1030	0.000	MNREGS
(iii)	Weste Weir No		375	No	63.375	375	0.16900	63.375				
(iv)	Farm Pond No.		16	No	12.018	8	0.61122	4.890	8	0.891	7.128	MNREGS
(v)	Bank stabilaization		9.5	km	12.635	9.5	1.33000	12.635				
(vi)	Weste Weir No (Bank stabilization)		19	No	4.465	19	0.23500	4.465				
2	¼vdf"k Hkkfe½											
(i)	pjkxkg fodkl Ha.		100	Ha	65.809	100	0.65809	65.809				
(ii)	NADI IN P.D BLOCK		4	No	8.000	4	2.00000	8.000				
(iii)	pjkxkg fodkl Ha. (Private Farmer)		414	Ha	23.577	414	0.05695	23.577				
(iv)	Open Contour Trench Ha		690	Ha	66.173	200.1	0.07608	15.224	489.9	0.104	50.950	MNREGS
(v)	Road side plantation work		18	Km	21.470	6.00	1.01560	6.094	12.00	1.28136	15.376	MNREGS
3	ukyk mipkj dk;											
(i)	Masanery Check Dam		10	No	4.600	10	0.46000	4.600				
(ii)	M.M.S.(Anicut)		5	No	19.200	5	3.84000	19.200				
(iii)	L.S.C.D		12	No	1.139	12	0.09492	1.139				
	mi;kx				**510.309**			**367.92**			**142.388**	
8	**ekbdk m/ke 9%**	**59.130**										
1	**LIVELIHOOD**											
4	Lo; lgk;rk leg (R/F.)	748	142	No	35.630	142	0.25000	35.630				
2	R.F To Indidual Enterprencurs		22	No	5.500	22	0.25000	5.500				
3	Grant in aid to Federation		9	No	18.000	9	2.00000	18.000				
	mi;kx				**59.130**			**59.130**				
9	**mRiknu 0;oLFkk 10%**	**65.70**										
	A.I. No.		13087	No	19.631	13087	0.00150	19.631				
4	A.H. CAMP (2 Day) 2x5		10	No	2.400	10	0.24000	2.400				
1	[kjhQ			No	9.103			9.10				
2	jch			No	6.5			6.50				
3	Qynkj ik/kkjki.k	137	61	Ha	27.307	15	0.40614	6.092	46	0.46119	21.215	MNREGS
4	uMi dEikLV	25.884	253	No	5.060	253	0.02000	5.060				
5 (i)	df"k Hkkfe (cvh Pro.)sc/st/BPL Alu+Kar		669	Ha	140.356				669	0.2098	140.356	MNREGS
(ii)	df"k Hkkfe (cvh Pro.) Other Alu		1740	Ha	32.407	441	0.01752	7.726	1299	0.019	24.681	MNREGS
(iii)	df"k Hkkfe (cvh Pro.) Other Alu+Kar		175	Ha	36.028	28	0.18528	5.188	147	0.2098	30.841	MNREGS
6	**Inovative Works**											
(i)	Vegitable Kit		500	No	4.000	500	0.00800	4.000				
	Total				**282.792**			**65.700**			**217.093**	
10	**dUlkfyM'ku pj.k 3%**				19.71			**19.710**				
	GRAND TOTAL				**1016.48**			**657.00**			**359.48**	

2022.964

Summary

S. No	NAME OF DEPARTMENT		Amount
1	MNREGS		359.480
	Grand Total		**359.48**

lefl/or tyxg.k ic<U/ku ifj;kt uk vU/rxr fljkgh tyxg.k {k= dh o"kokj okf"kd dk;l ;kt uk

ftyk dk uke : fljkgh
ipk;r lfefr dk uke : fljkgh
tyxg.k {k= dk uke : SIROHI IWMP -III
dy ykxr jkf'k : 657.00 yk[k
mipkfjr fd;k tku okyk iLrkfor {k=Qy : 5475 gDVj

d-l-	xfrfof/k dk uke	o"kokj okf"kd dk;l ;kt uk																			
		ykxr					2010-11 iFke o"k		2011-12 f)rh; o"k		2012-13 rrh; o"k		2013-14 prFk o"k		2014-15 ipe o"k		2015-16 NBoh o"k		2016-17 lkroh o"k		;kx	
		ifr'kr	ek=k	nj	As Per Annx.	ykxr	Hkkfrd y{;	foRrh; y{;	Hkkfrd y{;	foRrh; y{;	Hkkfrd y{;	foRrh; y{;	Hkkfrd y{;	foRrh; y{;	Hkkfrd y{;	foRrh; y{;	Hkkfrd y{;	foRrh; y{;	Hkkfrd y{;	foRrh; y{;	Hkkfrd y{;	foRrh; y{;
1	i'kkl fud ykxr 10% (Honarium of Watershed Development Team, Secretary of WC, Office Expences, Jeep Hiring etc.)					**65.700**				**3.285**		**9.855**		**21.024**		**18.396**		**6.570**		**6.570**		**65.700**
2	ekfuVfjax 1%					6.570						1.314		2.628				2.628				**6.570**
3	bokZ ;'ku 1%					6.570						1.971				2.2995		2.2995				**6.570**
4	**io'k fcU/ xfrfof/k ¼lkyj ykbV ,oa 'e'kku ?kkV½**	**4%**				**26.280**				**26.280**												**26.280**
5	**lLFkku o {ker fuek.k ¼if'k{k.k ,oa ,Dlikt j V;wj ,oa ukjk y[ku½**	**5%**				32.850				3.306		16.406		9.842		3.296						**32.850**
6	**foLrr ifj;kt uk ifronu**	**1%**				6.570				6.570												**6.570**
	tyxg.k dk;l pj.k																					
7	**tyxg.k fodkl dk;l pj.k**	**56%**																				
(I.)	**df"k Hkfe dk;l ¼vfl fpr½**																					
(i)	CVH(NRM)Ha.		1915	7254		138.914					85	6.166	670	48.602	820	59.483	340	24.664			**1915**	**138.914**
(ii)	West weir Na.		375	16900		63.375					17	2.873	126	21.294	145	24.505	87	14.703			**375**	**63.375**
(iii)	Farm Pond		8	61122		4.890					1	0.611	4	2.445	3	1.834					**8**	**4.890**
(iv)	Bank stabilaization		9.5	133000		12.635					3	3.990	0.5	0.665	3	3.990	3	3.990			**10**	**12.635**
(v)	West weir Na.		19	23500		4.465							4	0.940	8	1.880	7	1.645			**19**	**4.465**
(II.)	**¼vdf"k Hkfe½**																					
(i)	pjkxkg fodkl Ha.		100	65809		65.809					27	10.400	40	26.499	33	28.910					**100**	**65.809**
(ii)	NADI IN P.D BLOCK		4	200000		8.000						0.000	2	4.000	1	2.000	1	2.000			**4**	**8.000**
(iii)	pjkxkg fodkl Ha.(Private farmer)		414	5695		23.577					8	0.456	150	8.543	200	11.390	56	3.189			**414**	**23.577**
(iv)	Open Contour Trench		200	7608		15.224							47	3.576	134	10.195	19	1.453			**200**	**15.224**
(v)	Road side plantation work		6.00	101560		6.094							2	2.031	3	3.047	1	1.016			**6**	**6.094**

lefl/or tyxg.k ic/ku ifj;kstuk vUrxr fljkgh tyxg.k {k= dh o"kokj okf"kd dk;Z ;kstuk

fty dk uke : fljkgh
ipk;r lfefr dk uke : fljkgh
tyxg.k {k= dk uke : SIROHI IWMP -III
dy ykxr jkf'k : 657.00 yk[k
mipkfjr fd;k tku okyk iLrkfor {k=Qy : 5475 gDVj

d-l-	xfrfof/k dk uke	o"kokj okf"kd dk;Z ;kstuk																				
		ykxr					2010-11 iFke o"k		2011-12 f)rh; o"k		2012-13 rrh; o"k		2013-14 prFk o"k		2014-15 ipe o"k		2015-16 NBoh o"k		2016-17 lkroh o"k		;kx	
		ifr'kr	ek=k	nj	As Per Annx.	ykxr	Hkkfrd y{;	foRrh; y{;	Hkkfrd y{;	foRrh; y{;	Hkkfrd y{;	foRrh; y{;	Hkkfrd y{;	foRrh; y{;	Hkkfrd y{;	foRrh; y{;	Hkkfrd y{;	foRrh; y{;	Hkkfrd y{;	foRrh; y{;	Hkkfrd y{;	foRrh; y{;
(iii)	**ukyk mipkj dk;Z**																					
(i)	Masanery Check Dam		10	46000		4.600						0.050		1.220		2.620		0.710				**4.600**
(ii)	MMS		5	384000		19.203								5.000		14.203						**19.203**
(iii)	LSCD		12	9492		1.139								0.400		0.300		0.439				**1.139**
	mi;kx					**367.92**						**24.55**		**125.21**		**164.36**		**53.81**				**367.92**
8	**ekbdk m/ke**	**9%**																				
1	**LIVELIHOOD** (Karigar, Tailoring, White Wash, Paint, Masala Udyog) etc.																					
1	Lo; lgk;rk leg (R/F.)		142	0.2500		35.630						1.528		10.032		12.350		9.000		2.720		**35.630**
2	R.F To Indidual Enterprencurs		22	0.2500		5.500						2.000		1.750		1.000		0.750				**5.500**
3	Grant in aid to Federation		9	2.0000		18.000						1.000		12.000		4.000		1.000				**18.000**
	mi;kx					**59.130**						**4.528**		**23.782**		**17.350**		**10.750**		**2.720**		**59.130**
9	**mRiknu 0;oLFkk**	**10%**																				
(i)	A.I.+A.H. CAMP (2 Day) 2x5					22.03						12.380		5.240		2.384		1.241		0.785		**22.030**
(ii)	Other Works (Domestration, Horticulture, Kit, Compost)					43.669						1.050		17.619		12.000		10.000		3.000		**43.669**
	mi;kx					**65.70**						**13.43**		**22.86**		**14.38**		**11.24**		**3.79**		**65.70**
10	**dUlkfyVsUlh pj.k**	**3%**				19.710														19.710		**19.710**
	dy ;kx					**657.00**				**39.44**		**72.05**		**205.35**		**220.08**		**87.30**		**32.79**		**657.00**

lefMor tyxg.k icU/ku ifj;kstuk vUrxr fljkgh tyxg.k {k= dh o"kksoj okf"kd dk; ;kstuk

fty dk uke : fljkgh

ipk;r lfefr dk uke : fljkgh

tyxg.k {k= dk uke : SIROHI IWMP - III

dy ykxr jkf'k : 657.00 yk[k

mipkfjr fd;k tku okyk iLrkfor {k=Qy : 5475 gDVj

Name of Head	Name of Activity	Name of Subactivity	o"kksoj okf"kd dk; ;kstuk																		dy ;kx	
			ykxr						2010-11		2011-12		2012-13		2013-14		2014-15		2015-16		2016-17			
									iFke o"k		f)rh; o"k		rrh; o"k		prFk o"k		ipe o"k		NBoh o"k		lkroh o"k			
			ifr'kr	Unit	ek=k	nj	As Per Annx.	ykxr	Hkkfrd y{;	foRrh; y{;	Hkkfrd y{;	foRrh; y{;	Hkkfrd y{;	foRrh; y{;	Hkkfrd y{;	foRrh; y{;	Hkkfrd y{;	foRrh; y{;	Hkkfrd y{;	foRrh; y{;	Hkkfrd y{;	foRrh; y{;	Hkkfrd	foRrh;
1.Watershed Development Works	1.1 Soil & Moisture Conservation (Arable Land)	1.1.1 CVH (NRM)	56%	Ha.	1915	7254		138.914					85	6.166	670	48.602	820	59.483	340	24.664			1915	**138.914**
		1.1.2 Others (Westeweir)		No.	375	16900		63.375					17	2.873	126	21.294	145	24.505	87	14.703			375	**63.375**
		1.1.3 Farm Pond		No.	8	61122		4.890					1	0.611	4	2.445	3	1.834		0.000			8	**4.890**
		1.1.4 Bank Stablization		No.	9.5	133000		12.635					3	3.990	0.5	0.665	3	3.990	3	3.990			9.50	**12.635**
		1.1.5 Others (Westeweir)		No.	19	23500		4.465							4	0.940	8	1.880	7	1.645			19	**4.465**
	1.2 None Arable Land Development	1.2.1 NADI In P.D. Block		No.	4	200000		8.000						0.000	2	4.000	1	2.000	1	2.000			4	**8.000**
		1.2.2 Pasture Land Development		Ha.	100	65809		65.809					27	10.400	40	26.499	33	28.910					100	**65.809**
		1.2.3 Pasture Land Development (Private)		Ha.	414	5695		23.577					8	0.456	150	8.543	200	11.390	56	3.189			414	**23.577**
		1.2.4 Open Contour Trench		Ha.	200	7608		15.224					0	0.000	47	3.576	134	10.195	19	1.453			200	**15.224**
		1.2.5 Road Side Plantation		K.m.	6.00	101560		6.094					0	0.000	2	2.031	3	3.047	1	1.016			6	**6.094**
	1.3 Water Harvesting Structure Under DLT (New created)	1.3.1 Check dams (MCD)		No.	10	46000		4.600						0.050		1.220		2.620		0.710				**4.600**
		1.3.2 Nallah Bunds (MMS)		No.	5	384000		19.203								5.000		14.203						**19.203**
		1.3.3 L.S.C.D.		No.	12	9492		1.139								0.400		0.300		0.439				**1.139**
				TOTAL				**367.92**						**24.55**		**125.21**		**164.36**		**53.81**				**367.92**
2.EPA	2.1 No. of EPA activities	lkyj ykbV ,o 'e'kku ?kkV	**4%**	No.				26.280				26.280												**26.280**
				TOTAL				**26.280**				**26.280**												**26.280**
3.Institution & Capacity Building	3.1 **lLFkku o {kerk fuekZ.k ¼if'k{k.k ,oa ,Dlkstj V;j ,oa ukjk y[ku½**		**5%**					32.850				3.306		16.406		9.842		3.296						**32.850**
				TOTAL				**32.850**				**3.306**		**16.406**		**9.842**		**3.296**						**32.850**
4.Livelihood activities for the asset-less persons	**LIVELIHOOD** (Karigar, Tailoring, White Wash, Paint, Masala Udyog) etc.		**9%**																					
	4.1 Lo; lgk;rk leg (R/F.)			No.	142	0.2500		35.630						1.528		10.032		12.350		9.000		2.720		**35.630**
	4.2 R.F To Indidual Enterprencurs				22	0.2500		5.500						2.000		1.750		1.000		0.750				**5.500**
	4.3 Grant in aid to Federation			No.	9	2.0000		18.000						1.000		12.000		4.000		1.000				**18.00**
				TOTAL				**59.130**						**4.528**		**23.782**		**17.350**		**10.750**		**2.720**		**59.13**
5.Production system & Micro-enterprises	5.1 A.I.+A.H. CAMP (2 Day) 2x5		**10%**					22.03						12.380		5.240		2.384		1.241		0.785		**22.03**
	5.2 Other Works (Domestration, Horticulture, Kit, Compost)			No.				43.669						1.050		17.619		12.000		10.000		3.000		**43.669**
				TOTAL				**65.70**						**13.430**		**22.859**		**14.384**		**11.241**		**3.785**		**65.70**
6.Administrative Cost	6.1 **i'kklfud ykxr** 10% (Honararium of Watershed Development Team, Secretary of WC, Office Expences, Jeep Hiring etc.)		**10%**	No.				**65.700**				**3.285**		**9.855**		**21.024**		**18.396**		**6.570**		**6.570**		**65.700**
				TOTAL				**65.700**				**3.285**		**9.855**		**21.024**		**18.396**		**6.570**		**6.570**		**65.700**
7.Monitoring	7.1 Monitoring of Projects		**1%**	Per.				6.570						1.314		2.628				2.628				**6.570**
				TOTAL				**6.570**						**1.314**		**2.628**				**2.628**				**6.570**
8 Evoluation	8.1 Evoluation		**1%**	Per.				6.570						1.971				2.2995		2.2995				**6.570**
				TOTAL				**6.570**						**1.971**				**2.300**		**2.300**				**6.570**
9.DPR	9.1 Preparation Of DPR		**1%**	Per.				6.570				6.570												**6.57**
				TOTAL				**6.570**				**6.570**												**6.570**
10.Consolidation Part			**3%**	Per.				19.710														19.71		**19.71**
				GRAND TOTAL				**657.00**				**39.44**		**72.05**		**205.35**		**220.08**		**87.30**		**32.79**		**657.00**

Modal estimate of wasteweir in Bank Stabilization Bond

ABSTRACT OF COST

Name of work :-WHS :-Waste weir

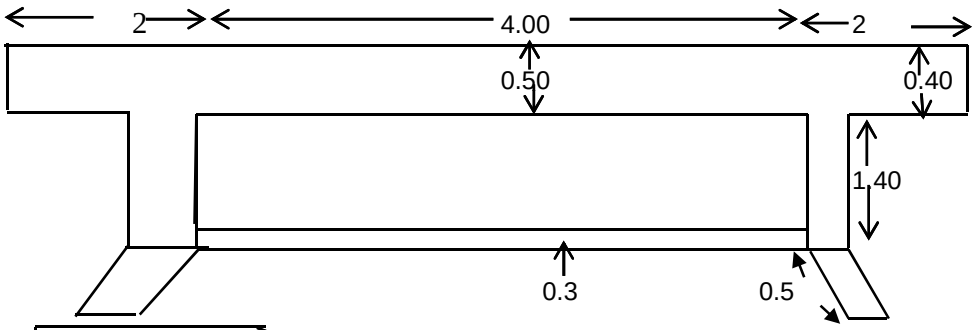
S.No	Particular	Qty.	Rate	Per	Amount	Labour Rate	L.Amount
1	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	6.90	75.00	cum	517.73	75	517.725
2	cement concrete well mixed in cement mortar(1:3:6) laid in position complete including curing Aggregate size upto 50mm. HB	1.95	1862.00	cum	3632.30	260.05	507.293
3	Random rubble stone masonary in cement sand mortar(1:6) for foundation	4.23	1426.00	cum	6035.19	402	1701.36
4	Random rubble stone masonary in cement sand mortar(1:6) forsuper structure	2.21	1426.00	cum	3144.33	402	886.41
5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	12.82	153.00	cum	1961.46	77.65	995.473
6	Cement concrete coping in cement mortar1:.2:4. 100mm thick	0.33	3095.00	cum	1021.35	434	143.22
		TOTAL			16312.35		4751.49
7	Rehandling of cement beyond 100 m initial lead lead up to 200	1.05	61.00		63.88	61	63.8783
			TOTAL		16376.23		4815.36
	METARIAL				11560.86		
	LABOUR				4815.36		
			TOTAL		16376.23		
	Add 3% Contingency Charges				491.29		
			TOTAL Rs.		16867.52		
			Say		0.169	Lac	

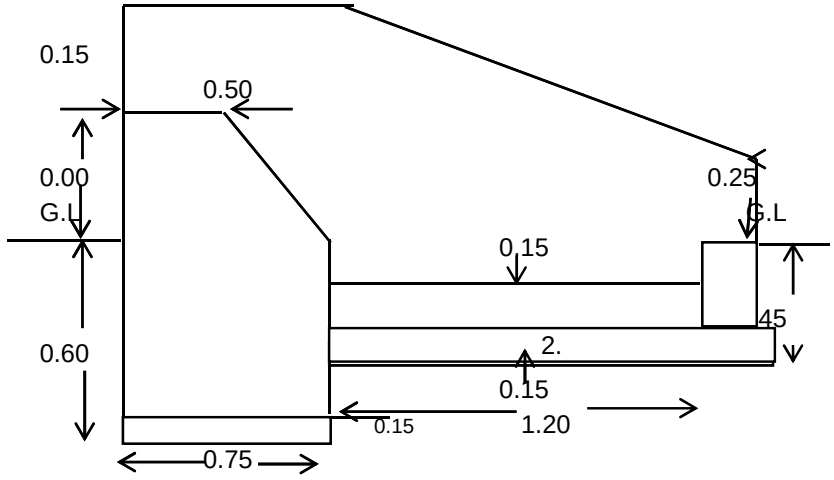
Prepared by checked by Approved by

MATERIAL CONSUMPTION STAEMENT

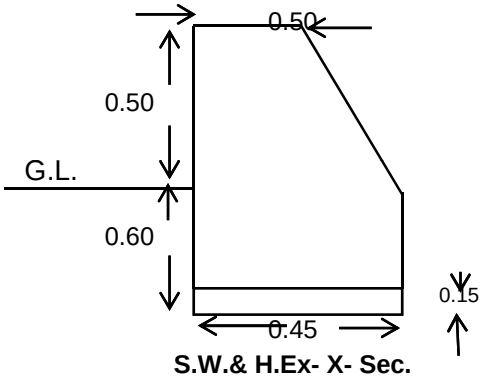
NAME OF WORK : RAIN WATER HARVESTING STRUCTURE WASTE WEIR							
S.no	Particular	Qty.	Cement	Sand	Aggregate		Stone
			Bags	Cum	50mm	20mm	Cum
1	Cement concrete (1:4:8) mm HB (cum) 3.40,0.48,0.96	1.95	6.63	0.94	1.87		
2	R R stone masonary (1:6) Foundation/ Super structure (cum) 1.68, 0.36, 1.14	6.44	10.81	2.32			7.34
3	Cement plaster (1:6)2 mm thick (sqm) 0.108 0.0022	12.82	1.38	0.28			
4	Raised &cut pointing (sqm) 0.0.32, 0.0043						
5	Stone kharanja in cement mortar (1:6)(cum) 1.80, 0.375, 1.20						
6	Cement concrete coping in cement mortar1:2:4.75 mm thick	0.33	2.11	0.15	0.30		
7	Dry stone pitching						
		TOTAL	20.94	3.68	2.17		7.34
	SAY		21 BAGS		1.05 MT		

PLAN





X-Section



S.W.& H.Ex- X- Sec.

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5

1-	dk; dk Ukke& Qke ik.M fuek.k dk;											
	in dh pkMkb 10 eh- & Åij dh pkMkb 20 eh- & xgjkb 2 ehVj											
2-	;ktuk dk uke& SIROHI (IWMP - III)											
Ø-l-	dk; dk fooj.k	l0	in dk {k=Qy	Åij dk {k=Qy	vklr {k=Qy	xgjkb	ek=k	bdkb	nj		jkf'k	
									Je	dy	Je	;kx
1	uho] [kkb] ijukyk e 1-5 xgjkb rd feêh dh [knkb djuk] ry dk dVuk] ikuh Mkyuk] cxy dk lokjuk] [knh feêh dk ckgj fudkyuk] uho Hkju d ckn [kkyh LFkkuk dk iuh feêh l Hkjuk rFkk cph gb feêh dk 50 ehVj dh njh rd fuLrkj.k djukA it u 1 vkbVe u 2											
A-	l[r] fpduh] ddj feêh e 80 ifr- vklr	1	100	400	250	1.6	400	?ku eh-	92.00	92.00	36800.00	36800.00
B-	fo?kfVr pVVku @eje 20 ifr- vklr	1	100	400	250	0.4	100	?ku eh-	134.00	134.00	13400.00	13400.00
2	vfrfjDr fy¶V dk dk; it u 1 vkbVe u 3	1	100	156.25	128.125	0.5	64.06	?ku eh-	11.00	11.00	704.69	704.69
3	vfrfjDr yhM dk dk; it u 1 vkbVe u 4	1	100	400	250	1	250	?ku eh-	33.75	33.75	8437.50	8437.50
	Total								Total		59342.19	59342.19
	tkM 3 % dfUVu tlh											1780.27
									dy ;kx			61122
									SAY			61122
				ykxr Je en e								**59300**
				ykxr lkexh en e								**1822**
				dy ;kx								**61122**

Modal estimate of wasteweir in Bank Stabilization Bond

ABSTRACT OF COST

Name of work :-WHS :-Waste weir

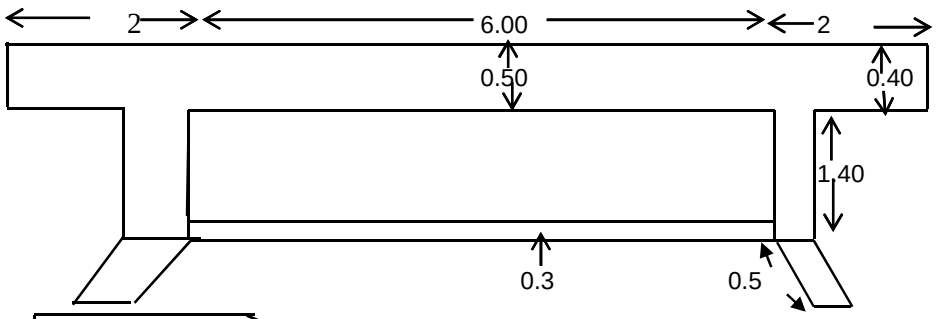
S.No	Particular	Qty.	Rate	Per	Amount	Labour Rate	L.Amount
1	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	9.15	75.00	cum	686.48	75	686.475
2	cement concrete well mixed in cement mortar(1:3:6) laid in position complete including curing Aggregate size upto 50mm. HB	2.63	1862.00	cum	4889.15	260.05	682.826
3	Random rubble stone masonary in cement sand mortar(1:6) for foundation	5.45	1426.00	cum	7767.78	402	2189.79
4	Random rubble stone masonary in cement sand mortar(1:6) forsuper structure	3.60	1426.00	cum	5139.30	402	1448.81
5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	19.25	153.00	cum	2944.49	77.65	1494.37
6	Cement concrete coping in cement mortar1:.2:4. 100mm thick	0.41	3095.00	cum	1268.95	434	177.94
	TOTAL				22696.14		6680.22
7	Rehandling of cement beyond 100 m initial lead lead up to 200	1.44	61.00		87.95	61	87.9501
			TOTAL		22784.09		6768.17
	METARIAL				16015.92		
	LABOUR				6768.17		
			TOTAL		22784.09		
	Add 3% Contingency Charges				683.52		
			TOTAL Rs.		23467.61		
			Say		0.235	Lac	

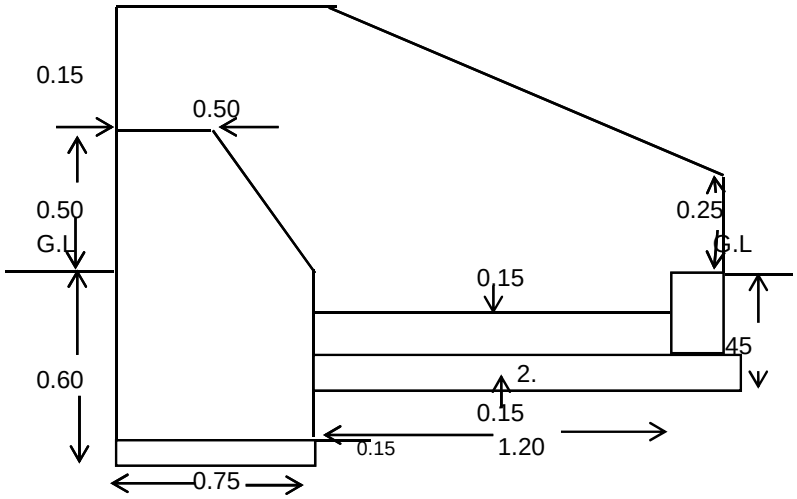
Prepared by checked by Approved by

MATERIAL CONSUMPTION STAEMENT

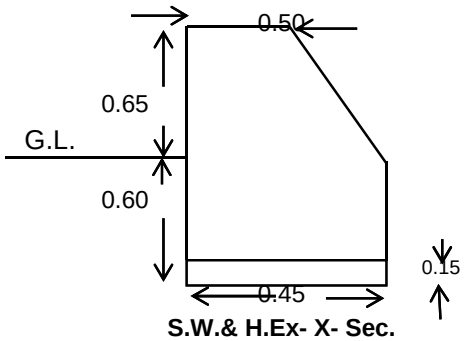
NAME OF WORK : RAIN WATER HARVESTING STRUCTURE WASTE WEIR							
S.no	Particular	Qty.	Cement	Sand	Aggregate		Stone
			Bags	Cum	50mm	20mm	Cum
1	Cement concrete (1:4:8) mm HB (cum) 3.40,0.48,0.96	2.63	8.93	1.26	2.52		
2	R R stone masonary (1:6) Foundation/ Super structure (cum) 1.68, 0.36, 1.14	9.05	15.21	3.26			10.32
3	Cement plaster (1:6)2 mm thick (sqm) 0.108 0.0022	19.25	2.08	0.42			
4	Raised &cut pointing (sqm) 0.0.32, 0.0043						
5	Stone kharanja in cement mortar (1:6)(cum) 1.80, 0.375, 1.20						
6	Cement concrete coping in cement mortar1:2:4.75 mm thick	0.41	2.62	0.18	0.37		
7	Dry stone pitching						
		TOTAL	28.84	5.13	2.89		10.32
	SAY		29 BAGS	1.44 MT			

PLAN





X-Section



S.W.& H.Ex- X- Sec.

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5

P.S. - SIROHI, DISTT. - SIROHI (RAJ.)

	Name of Work :- Pasture Land Development			**(NRM)**			W/S
	Costing & Quantity Estimation of Pasture Land Development						
1.00	Ha. Area for trenching, Size of trench	0.45	mt. Depth		0.45		mt. Width
33.3	Mt. Contour to contour intervals	0.2025	Sqm cross section area of trench				
80	MM / Hr. Rainfall intensity of area						0.002
296	Mt. trenching length required in one hectare of la	Say CCT/ha.	300.00				
60	Rmt. Length of Ditch cum bund fencing per ha.						
278	Plants to be planted in one hectare	Say	300		36.00	2.5 x 2.5 mt. Spacing	
1.20	Mt. Depth of cattle protection trench,	Top width	1.5		Bottom width		0.9
1.44	Sqm cross section area of DCB	60.00	mt. Length of Ditch cum bund fencing per ha.Total C P				
S.no	**Particular**	**Unit**	**Quantity**	**Labour Rate**	**Total Rate**	**Labour Cost**	**Total Amount**
(A)	**Ditch cum bund**						
1	Dug belling work up to 5 to 7 cm depth. (4X60=240)	Rmt.	240	1.00	1.00	240	240.00
2	Excavation of Ditch cum bund fencing	Cum	86.4				
3	Hard Soil 40% (60X1.44X0.4=34.56)	Cum	34.56	91	91	3144.96	3144.96
4	Ordinary Murram 30% (60X1.44X0.3=25.92)	Cum	25.92	99	99	2566.08	2566.08
5	Disintric Rock 30% (60X1.44X0.3=25.92)	Cum	25.92	134	134	3473.28	3473.28
(B)	**Thor fencing work**						
6	Excavation for thor fencing size 0.15x0.15x60 m	Cum	1.35	91	91	122.85	122.85
(C)	**Counter Trench**						
7	Layout (by A-farm or dumpy level) for contouring.	Rmt.	300	0.31	0.31	93	93.00
8	Dug belling work up to 5 to 7 cm depth for contouring. (2X300=600)	Rmt.	600	1.00	1.00	600	600.00
40%	Contour trench Excavation in 40 % Hard soil for trenching. (1X300X0.2025X0.40=24.30)	Cum	24.3	91	91.00	2211.3	2211.30
60%	Contour trench Excavation in 60 % Ordinary Murram for trenching. (1X300X0.2025X0.60=36.45)	Cum	36.45	99	99.00	3608.55	3608.55
(D)	**Pits Work**						
40%	Pit digging in hard soil of size 45x45x45 Cm.	Per pit	120	7.48	7.48	897.6	897.60
60%	Pit digging in moorm soil of size 45x45x45 Cm.	Per pit	180	14.74	14.74	2653.2	2653.20
9	Ring making of 1.0 Mt. Radius & 30 Cm. width X 20 Cm. Depth.	Per plant	300	2.40	2.40	720	720.00
	Note:- All Rates Apply Gramin kary Nirdesika 2011				**Total**	**Rs.20,331**	**Rs.20,331**
	Total					**Rs.20,331**	**20331**
	Contengency 3%						**610**
	Total Amount						**20941**

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)

	Name of Work :- Pasture Land Development				**(Production)**		W/S
	Costing & Quantity Estimation of Pasture Land Development						
1	Ha. Area for P.D,						
60	Rmt. Length of Ditch cum bund fencing per ha.						
277.8	Plants to be planted in one hectare	Say	300		36.00	6 x 6 mt. Spacing	
S.no	**Particular**	**Unit**	**Quantity**	**Labour Rate**	**Total Rate**	**Labour Cost**	**Total Amount**
(A)	**Thor fencing work**						
1	Supply and cutting of 80 cm thor sticks. (7N0 Danda /-Ha)	Per 100 stick	420	74.3	174	312.06	730.80
2	Transportation cost of thor sticks through bullock cart from 5 km distance, loading & unloading.	Per 100 stick	420	100	100	420	420.00
3	Rehandling work of thor sticks up to 200 to 500mt distance.	Per 100 stick	420	76.5	76.5	321.3	321.30
4	Planting of Thor sticks.	Rmt.	60	6.93	6.93	415.8	415.80
(B)	**Plantation work**						
5	Treatment of pit by FYM & Cloropairiphas (25gm per pit)	Per pit	300	0.82	0.82	246	246.00
6	Cost of Cloropairiphas (As per market Rate)	Per Kg	7.50	0.00	32.00	0	240.00
7	Cost of cloropairyphose As per market Rate.3x0.6=1.8 lit	Per litre	1.80	0.00	280.00	0	504.00
8							600.00
8	Cost of saplings	Per plant	300	0	5.00	0	1500.00
9	Transportation Cost of saplings from 10 km distance.	Per 1000 Plant	0.3	196	1435.00	58.8	430.50
10	Planting of plant with Rehandling work 100m distance, mixing of soil with FYM,Endosalphane & filling of pit.cutting of polythine bag & planting with doing compact soil.	Per pit	300	7.40	7.40	2220	2220.00
11	Planting of Aloevera plant on top of contour trench 0.60m spacing with complete work.600x0.6=360 Rmt	Per Rmt	360	9.97	9.97	3589.2	3589.20
12	Cost of Aloevera including transport 10 Km + Loading Unloading + Rehandling 50%(3.75+0.94+0.297+0.3715=5.36)	Per plant	600	0	5.36	0	3216.00
14	Watering to the plant with 15 liters per plant for first year three times,second year five times & third year five times with mixing cloropairyphose.(2ml per pit) (300X13=3900)	Per plant	3900	1.85	1.85	7215	7215.00

S.no	Particular	Unit	Quantity	Labour Rate	Total Rate	Labour Cost	Total Amount
15	Transportation Cost of water up to 5 km distance.(300X13X15=58500)	Per 4000 Litre	58500.00	0	450.00	0	6581.25
16	Weeding & Hoeing (300X2X3=1800)	Per plant	1800	1.20	1.20	2160	2160.00
17	Ploughing by tractor cultivator and grass seed broadcasting (seed rate 6 to 8 kgs/ha) cost of seed not included	Ha.	0.80	284.00	964.00	227.2	771.20
18	*Grass seed As per forest BSR 2004-2005 page no-12.*						
100%	Dhaman	Kg.	12	0	50.00	0	600.00
19	Making pallets of mixture of fine soil, grass seed, manure etc (seed rate 6 to 8 kgs/ha) cost of seed not included	Kg.	12.00	18.90	18.90	226.8	226.80
20	Sowing of grass seed pallets on bunds in two rows.	Rmt.	720	0.59	0.59	424.8	424.80
21	Sowing of tree seed on ridges.	Rmt.	300.00	0.59	0.59	177	177.00
22	Sowing of tree seed on bund (Desi Babool,neem & jetropha).	Rmt.	180	0.59	0.59	106.2	106.20
23	*Tree seed As per forest BSR 2004-2005 page no-12.*						
	Deshibabool	Kg.	0.40	0.00	18.00	0	7.20
	Kher	Kg.	0.40	0.00	19.00	0	7.60
	Neem	Kg.	0.40	0.00	39.00	0	15.60
	Kumath	Kg.	0.40	0.00	33.00	0	13.20
24	One man chokidar for three year (within 25 Ha)	No	43.80	135.00	135.00	5913	5913.00
25	Gap filling in Second year (20%)					3097.8	4908.39
	Note:- All Rates Apply Gramin kary Nirdesika 2011				**Total**	**Rs.27,131**	**Rs.43,561**
						Rs.27,131	**Rs.43,561**
					Total	**Rs.27,131**	**43560.84**
	Add.3% Contengencey						1306.83
	Grand Total						**44867.67**

Total Cost/ Ha	Labour Cost/ Ha	Material Cost/ Ha
44868	27131	17737

Total Cost of Pasture Dovelopment	65809
NRM Part	20941
Production	44868

NADI IN P. D. BLOCK

1 Name of Watershed :- SIROHI IWMP - III
P.S . - SIROHI DISTT. SIROHI

2 Name of work :- **CONTRUCTION OF NADI WITH WASTEWEIR**

Design

1 Available crest length 6.00 M
2 Total catchment area 20.00 Ha
3 Hight of structure 0.80 M

A Design discharge (By flood discharge method)

A HYDROLIC DESIGN

Peak rate of run off in cum/sec.=

$Q = \frac{C\ I\ A}{36}$ C= 0.40

Catchment Area 20.00 Ha

Q = 1.78 cumsec $K = \sqrt{\frac{L^3}{H}}$

L= 1200.00 M

Say 2.00 cumsec H= 4.00 M

K 20784.61

$Tc=0.0195K^{0.}$ 41.18

I = 8.00 cm/hr.

B HYDROLIC DESIGN

$Q = 1.71L(h)^{3/2}$ L = 6.00 mt length available at site

$h =[Q/1.71L]^{2/3}$

h = 0.34 Say = 0.35

Taking free board as 0.3 M

Total d = 0.65

C. STRUCTURAL DESIGN

(I) Top width of Head wall

$h /(p-1)^{0.5}$ 0.31 0.31 say = 0.60 M

(as per site condition where h = 0.35 m p = 2.30 0.35

p Specific gravty of stone masnory in cm = 2.3

(ii) Bottom width of head wall

b = 0.8H+T.W+.3 1.54 Say = 1.60 M

H =heigth of head wall in meters = 0.8 m 0.80 M

(iii) Length of head wall extension

H +d + 1 2.45 2.45 M

d = h+free board = 0.65 0.65 M

but as per side condition L/S M 1.5 R/S M 1.5 3.00 M

(iv) Heigth of Head wall extension

H + d = 1.45 M

(v) Botton width of HW ext. side wall & wing wall

0.5(H+h)= 0.58 0.60 M

(vi) Top width of HW ext

0.4H= 0.32 0.60 M

(vii) APRON WIDTH

=H+d 1.45 1.45 M

(viii) Thickness of Basin =0.60m(incloding concreting)

(ix) Height of side wall

H+d = 1.45 1.45 M

(x) Height of side wall =1.5h at W W joints

1.5h = 0.53 0.50 M

(xi) Length of side wall = B. W. of H. W -B.W of H W E+Apron width+ width of toe wall
2.90

(xii) Length of wing wall = 2.25 h= 0.79 0.80 M

(xiii) Height of the wing wall = 0.53 0.60 M

(xiv) Top width of Head wall ext site wall wing wall = 0.60mt

(xv) Width of toe wall= 0.45 M

(xvi) Height of toe wall = 0.30 M

(xvii) Height of wing wall at wing end = 0.60 M

(xviii) Bottem width of the side wall &wing wall taking as per Bottom width of the head wall ext as in item no.5= m 0.60 M

(xix) Depth of foundation taking as 1.00 M

STABILITY CHECK'S

a	Top width of anicut	=	0.60 m
b	Bottm width of anicut	=	1.60 m
$w_1 + w_2$	self weight of anicut		
p_1	Pressure due to water besswall		
p_2	Horizontal water pressure		
p_3	Up lift pressure		
h	Food heigth	=	0.35 m
H	heigth of anicut	=	0.80 m
L	considening one metre	=	1
S			2.3
C			0.6

Forces acting on a over flow gravity dam
Forces and momrnt calculation's
considening one metre length of ancut and taking
Restoring moment as positive (+ ve) and overturning moment as negative (-ve)
moment taken at B

s. no.		Forces	v- vertical forces	H- horizontal forces	Force acting at a distance from B	moment at B 2x5	
						+ ve	-ve
1		w_1 = a x H xLxS					
		1.10	1.10		2.20	2.43	
2		w2 = 1/2x(b-a)xHxLxS					
		0.92	0.92		1.13	1.04	
3		p_1 =wh x H					
		0.28		0.28	0.90		0.25
4		p_2 =wH^2/2 x H					
		0.32		0.32	0.60		0.19
5		p_3 =cxwbx(H+h)/2					
		0.46	0.46		1.80		0.83
		TOTAL	1.56	0.60		3.47	1.27

Em=mr-mo
2.19

CHECKS IN OVERTURNING
Factor of satety agaist overturning
Emr/Emo =+m/-m = Restoning moment/overturning moment
2.72
it is more than 1.50 hance structure is safe against overturning
SLINDING
Factor of safety against slinding
Ev/Eh = 2.61
it is more than 1.0 hance structure is safe against slinding
RUPTURE (safety against tension at the bese)
X Relne Position of resultant measured from toe

x = Em/Ev =	1.40
e = b/2 - X	-0.60
Ev/b (1+6e/b)	-1.29
Ev/b (1-6e/b)	3.24
P max =	-1.29
P min =	3.24

ABSTRACT OF COST

Name of work :-WHS :-Anicut

S.No	Item no	Particular	Qty.	Rate	Per	Amount	Labour Rate	L.Amount
1	2,(b)1	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	2.61	75.00	cum	195.75	75.00	195.75
2	2(c),1	Excavation in ordinary murram or earth mixed with bajri and kankar or boulder dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	7.83	92.00	cum	720.36	92.00	720.36
3	2(d),1	Excavation in disintegrated rock and or soft rock or hard bankar or compacted murrum dry or moist including dressing&disposal of exeavated matarual with intial lead of 30m and lift of 1.5m	15.66	134.00	cum	2098.44	134.00	2098.44
4	192,17	cement concrete well mixed in cement mortar(1:3:6) laid in position complete including curing Aggregate size upto 40mm. HB	8.17	1862.00	cum	15216.26	260.05	2125.1286
5	27,3	Random rubble stone masonary in cement sand mortar(1:6) for foundation	14.06	1426.00	cum	20046.71	402	5651.316
6	28,3	Random rubble stone masonary in cement sand mortar(1:6) forsuper structure	12.64	1426.00	cum	18023.21	402	5080.878
7	70,8	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	33.21	153.00	cum	5080.37	77.65	2578.3683
8	40(ii),4	Cement concrete coping in cement mortar1:1.5:3.100mm thick	0.99	3095.00	cum	3077.98	434	431.613

9	2(b),1	E/W for bind / embankment in dry or mosit soil including laying on layers 1.5cm Breaking of clods sort ing of grass pabbles ete and dressing in requred profile when compacted manually or by plain roller with initial lead of 30mt and lift 1.5 mt (exeluding charges of waterring and compaction) Hard soil	1415.00	92.00 cum	130180.00	92.00	130180
			TOTAL		194639.08		149061.85
		TOTAL			194639.08		
		Add 3% Contingency Charges			5839.17		
		Total METARIAL			51416.40	SAY	**0.514**
		Total LABOUR			149061.85	SAY	**1.491**
		G. TOTAL			200478.25	Say	**2.00**

Prepared by checked by Approved by

DETAILED ESTIMATE

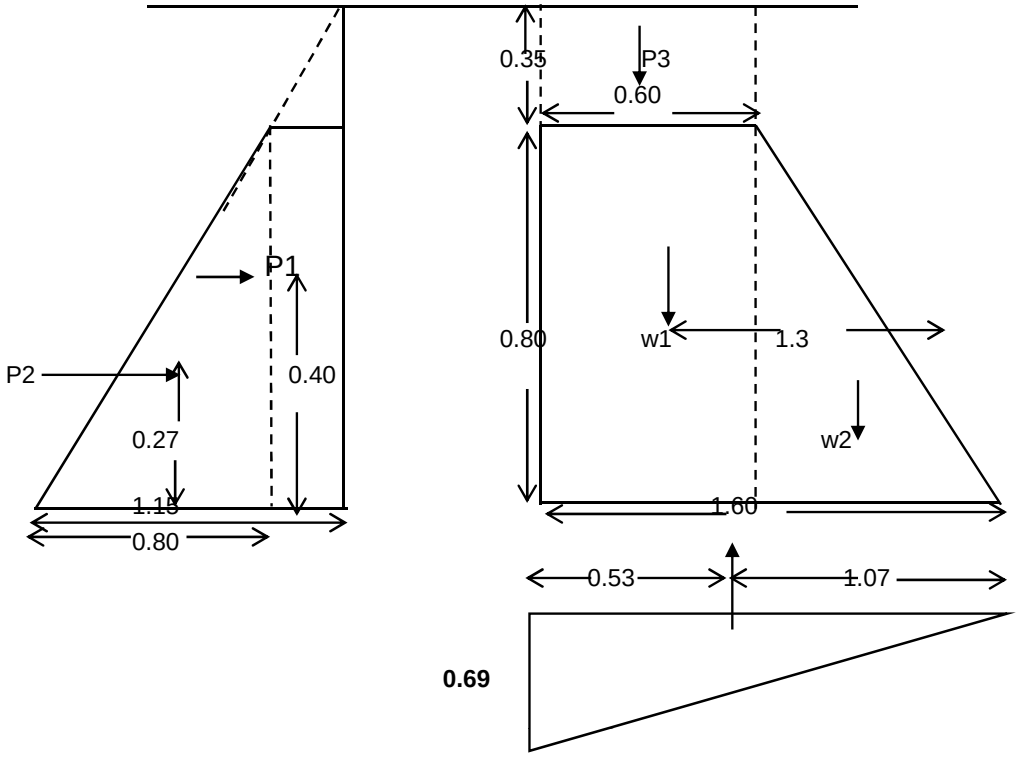
S.No.	PARTICULAR	No.	LENGTH	BREADTH	HT/DEPTH	QUANTITY
1	Total Excavation					
	H.W.	1.00	6.00	1.60	1.00	9.60
	H.W.E.	1.00	3.00	0.60	1.00	1.80
	S.W.	2.00	2.90	0.60	1.00	3.48
	wing wall	2.00	0.80	0.60	1.00	0.96
	Toe wall	1.00	6.00	0.45	0.90	2.43
	Apron	1.00	6.00	1.45	0.90	7.83
				Total	(cu.m)	26.10
2	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete 10%of TotalExcavation					
				Total		2.61
3	Excavation in ordinary murram or earth mixed with bajri and kankar or boulder dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete 30% of Total Excavation					
				Total		7.83
4	Excavation in disintegrated rock and or soft rock or hard bankar or compacted murrum dry or moist including dressing&disposal of exeavated matarual with intial lead of 30m and lift of 1.5m 60% of Total Excavation					
				Total		15.66
5	cement concrete well mixed in cement mortar(1:3:6) laid in position complete including curing Aggregate size upto 50mm. HB Total Excavation H.W.					
		1.00	6.00	1.60	0.30	2.88
	H.W.E.	1.00	3.00	0.60	0.30	0.54
	S.W.	2.00	2.90	0.60	0.30	1.04
	Wing Wall	2.00	0.80	0.60	0.30	0.29
	Toe Wall	1.00	6.00	0.45	0.30	0.81
	Apron	1.00	6.00	1.45	0.30	2.61
				Total		8.17

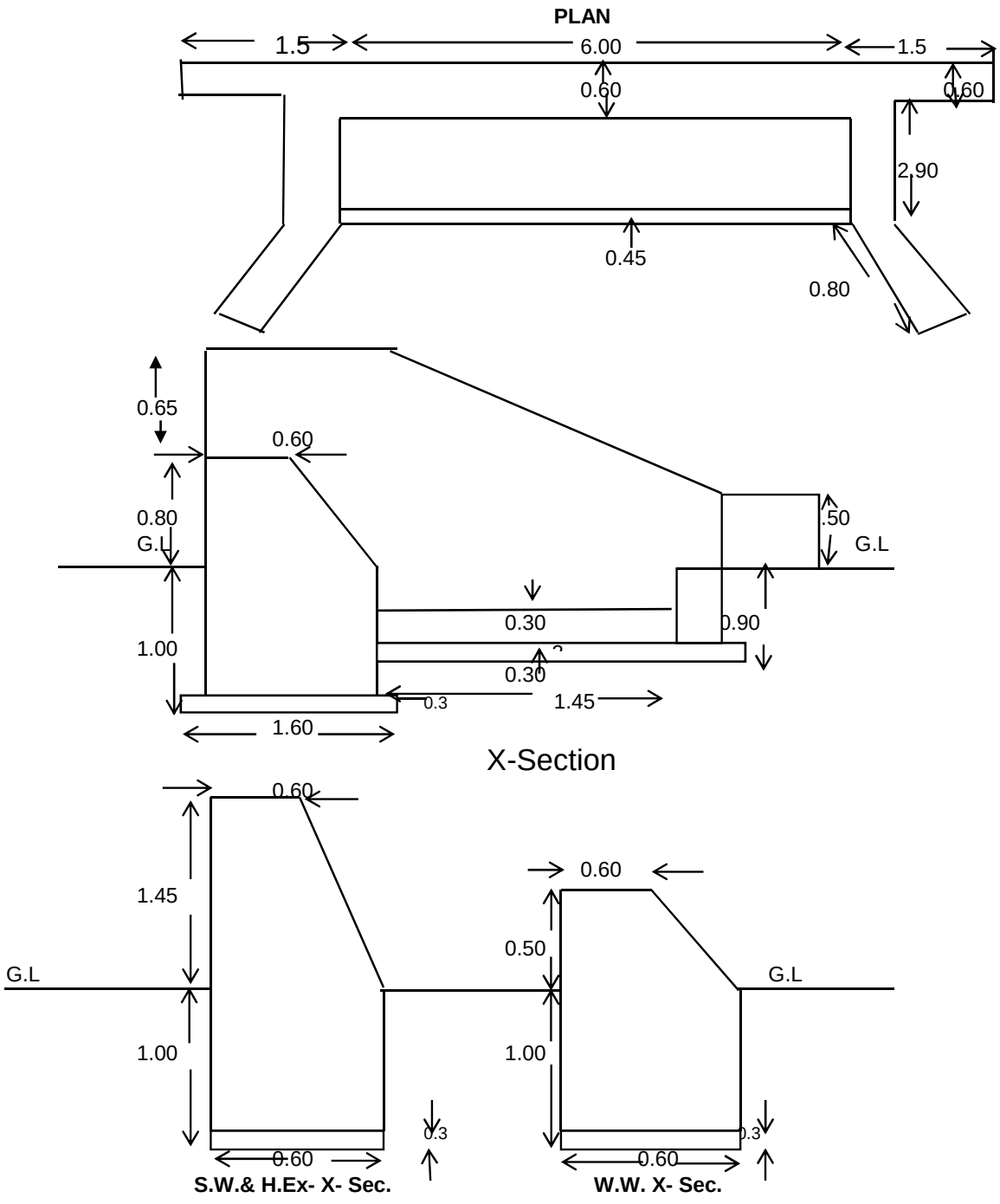
6	Random rubble stone masonary in cement sand mortar(1:6) for foundation					
	H.W.	1.00	6.00	1.30	0.70	5.46
	H.W.E.	1.00	3.00	0.60	0.70	1.26
	S.W.	2.00	2.90	0.60	0.70	2.44
	Wing Wall	2.00	0.80	0.60	0.70	0.67
	Toe Wall	1.00	6.00	0.45	0.60	1.62
	Apron	1.00	6.00	1.45	0.30	2.61
			Total			14.06
7	Random rubble stone masonary in cement sand mortar(1:6) forsuper structure					
	H.W.	1.00	6.00	0.95	0.80	4.56
	H.W.E	1.00	3.00	0.60	1.45	2.61
	S.W.	2.00	1.90	0.60	1.03	2.34
		2.00	1.00	0.60	1.45	1.74
		2.00	0.00	0.60	0.73	0.00
	Wing Wall	2.00	0.80	0.60	1.45	1.39
			Total			12.64
8	Cement plaster including smooth finishing in cement mortar (1:3)25mm thick					
	H.W.	1.00	6.00	0.80		4.80
		1.00	6.00	1.10		6.60
		1.00	6.00	0.30		1.80
	S.W.	2.00	0.60	0.65		0.78
		2.00	1.00	1.05		0.78
		2.00	1.90	1.03		3.90
		2.00	1.45	0.30		0.87
	Wing Wall	2.00	0.80	0.60		0.96
		2.00	0.60	0.60		0.72
	H.W.E.	1.00	3.00	0.50		1.50
	Toe Wall	1.00	6.00	0.30		1.80
	Apron	1.00	6.00	1.45		8.70
			Total			33.21
9	Cement concrete coping in cement mortar1:2:4.75 mm thick					
	H.W.	1.00	6.00	0.60	0.08	0.27
	S.W.	2.00	3.50	0.60	0.08	0.32
	Wing Wall	2.00	0.80	0.60	0.08	0.07
	H.W.E.	1.00	3.00	0.60	0.08	0.14
	Toe.Wall	1.00	6.00	0.45	0.08	0.20
	Apron	0.00	6.00	1.45	0.10	0.00
			Total			0.99
10	E/W for bind / embankment in dry or mosit soil including laying on layers 1.5cm Breaking of clods sort ing of grass pabbles ete and dressing in requred profile when compacted manually or by plain roller with initial lead of 30mt and lift 1.5 mt (exeluding charges of waterring and compaction) Hard soil					
		1415				1415.00
			Total			1415.00

MATERIAL CONSUMPTION STAEMENT

NAME OF WORK : RAIN WATER HARVESTING STRUCTURE ANICUT								
S.no		Particular	Qty.	Cement	Sand	Aggregate		Stone
				Bags	Cum	50mm	20mm	Cum
1		Cement concrete (1:3:6) mm HB (cum) 4.05,0.43,0.86	8.17	33.10	3.51	7.03		
2		R R stone masonary (1:6) Foundation/ Super structure (cum) 1.40, 0.30, 1.10	26.70	37.38	8.01			29.37
3		Cement plaster (1:6)25 mm thick (sqm) 0.153 0.03	33.21	5.08	1.00			
4		Raised &cut pointing (sqm) 0.0.32, 0.0043						
5		Stone kharanja in cement mortar (1:6)(cum) 1.80, 0.375, 1.20						
6		Cement concrete coping in cement mortar1:1.5:3.75 mm thick 7.33,0.40,0.78	0.99	7.29	0.40	0.78		
7		Dry stone pitching						
			TOTAL	82.84	12.92	7.80		29.37

SAY 83 BAGS 4.14 MT

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SIROHI (IWMP - III) W/S - 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)

							Private Pasture MNREGS
	Name of Work :- Pasture Land Development						**Jaivik Bad(Production)**
	Costing & Quantity Estimation of Pasture Land Development						
1	Ha. Area for P.D,						
400	Rmt. Length of Thore fencing per ha.						
400	Plants to be planted in one hectare	Say	400			1.0 x 1.0 mt. Spacing	
S.no	**Particular**	**Unit**	**Quantity**	**Labour Rate**	**Total Rate**	**Labour Cost**	**Total Amount**
(A)	**Thor fencing work**						
1	Excavation for thor fencing size 0.15x0.15x60 m	Cum	9.00	0.88	0.88	7.92	7.92
2	Supply and cutting of 80 cm thor sticks.(7 No Danda /-Ha)	Per 100 stick	2800	65.5	165	1834	4620.00
3	Transportation cost of thor sticks through bullock cart from 5 km distance, loading & unloading. (70+30=100)	Per 100 stick	2800	25.3	96.5	708.4	2702.00
4	Rehandling work of thor sticks up to 200 to 500mt distance.	Per 100 stick	2800	65.5	67.4	1834	1887.20
5	Planting of Thor sticks.	Rmt.	400	6.93	6.93	2772	2772.00
	Total					**7156.32**	**11989.12**
	Je Hkkx e 30 % VkLd dh deh d dkj.k vfrjDr tkMuk					3066.48312	3066.48
	;kx					**10223**	**15055.60**
	tkM 3 % ikuh okyk vk;k					306.68	306.68
	;kx					**10529**	**15362.29**
	tkM 2 % dfUVu tlh						307.25
	dy ;kx						15670
	SAY						15700
					ykxr Je en e		**10530**
					ykxr lkexh en e		**5170**
					dy ;kx		**15700**

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)

	Name of Work :- Pasture Land Development					**ALOEVERA NRM**	
Costing & Quantity Estimation of Pasture Land Development							
1	Ha. Area for P.D,						
400	Rmt. Length of Thore fencing per ha.						
400	Plants to be planted in one hectare	Say	400			1.0 x 1.0 mt. Spacing	
(A)	**Plantation work**						
1	Planting of Aloevera plant on Boundary of field & (0.6mx0.6m) spacing with complete work (400x0.6=240 Rmt)	Per Rmt	240	9.97	9.97	2392.8	2392.8
2	Cost of Aloevera Including Transportation 10 Km + Loading Unloading + Rehandling 50 %(3.77+0.94+0.297+0.3715=5.38)	Per plant	400	1	5.38	400	2150.00
3	Grass Seeding work (Dhaman Seed)12 kg/-Ha	Per Kg	12	0	50.00	0	600.00
4	Making of Pallets	Per Kg	12	18.9	18.90	226.8	226.80
5	Spreeding of Grass Seed	Per Ha	1	160	160.00	160	160.00
					Total	**Rs.3,180**	**Rs.5,530**
						Rs.3,180	**Rs.5,530**
					Total	**Rs.3,180**	**5529.60**
	Add.3% Contengencey						165.89
	Grand Total						**5695.49**

	Total Cost/ Ha	**Labour Cost/ Ha**	**Material Cost/ Ha**
	5695	3180	2516

Total Cost of Private Pasture Dovelopment	**5695**
Cost From w/s scheme	**5695**

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)

OPEN LAND CONTOUR TRENCH					
Total length of CCT per ha =300 Rm/ha					
C X= 0.2025 Cum					W/S
	Total Area in Ha	1			
S. No.	**Item**	**Quantity**	**Unit**	**Rate**	**Amount**
1	Marking of contour line through dumpy level	300	Per metre	0.31	93.00
2	Dug belling work for CCT up to 5-7 cm depth (As per BSR2011, P.no. 14, item no. 155a) (2X300=600)	600	Rm	1.00	600.00
	Quantity of E/W (300Rmt X 0.2025=60.75 cum)	60.75	Cum		
3	Excavation of hard soil for CCT as per BSR2012 40%	24.3	Cum	75.00	1822.50
4	Excavation of murram for CCT as per BSR2012 60%	36.45	Cum	92.00	3353.40
5	Sowing of local grass seed on bunds As per BSR2012 (3X300=900)	900	Rm	0.59	531.00
6	Grass seed				
A	Spreeding of Grass seed	1	Ha	160	160.00
B	Making of pallets	12	Kg	18.9	226.80
C	Dhaman	12	Kg	50	600.00
	Total cost for CCT				**7386.70**
	Contengency charge 3%				**221.60**
					7608.30
	SAY Amount	**7608**	**Per Ha**		

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5

P.S. - SIROHI, DISTT. - SIROHI (RAJ.)

Road Side Plantation For MGNREGA

iFke o"k l/kkj.k

d- l-	BSR ITEM	fooj.k	bdkb	ek=k	nj		jk'kh	
					Je	dy	Je	dy jk'kh
1		dBkj feVVh e [kMMk [knkb dk; 0-60 * 0.60 *0.60=0.216 CumX200 No =43.20 Cum	Per Cum	43.20	90	90	3888	3888
2		dBkj feVVh e fjx [knkb dk;	Per Cum	118.69	90	90	10682.1	10682.1
3		xMMk e Hkju gr ckgj l ihyh feVVh d; dj ifjogu e; xMMk e Hkjkb vklru 20 ifr'kr xMMk e 73.8+41.70=115.50 cum	Per Cum	8.64	90	115.5	777.6	997.92
4		ik/kk [kjhn ou foHkkx dh uljh l nk o"k dk ik/kk	ifr ik/kk	220	0	8	0.00	1760.00
5		ik/k ifjogu 20 fdeh- l vf/kd njh l	ifr 1000 ik/kk	220	195.8	2654	43.08	583.88
6		[kn g, xMMk dk dhVuk'kd nok l mipkjhr djuk A	ifr ik/kk	200	0.5	0.55	100.00	110.00
7		dhVuk'kd nok [kjhn dk;	ifr ik/kk	200	0.5	1	100.00	200.00
8		ik/kk dk jki.k	ifr ik/kk	200	3.6	3.6	720.00	720.00
9		ty lj{k.k gr Fkkoyk cukuk 50 leh- v/n0;kl eA	ifr Fkkoyk	200	2.4	2.4	480.00	480.00
10		ik/kk dk ikuh fiykuk 20 yhVj ifr ik/kk lkr ckjA 200X7=1400 No	ifr ik/kk ifr lkr ckj	1400	1.85	1.85	2590.00	2590.00
11		ikuh [kjhn e; ifjogu 200X7X20=28000 Lit.	ifr Vdj / 4000 lit	7	0	450	0.00	3150.00
12		o"kk fjr e ik/kk dh nk ckj funkb xMkb djuk (2*200=400 No)	ifr ik/kk	400	1.2	1.2	480.00	480.00
13		Fkkj Qflx dk; fjx d vUnj	Rmt	1507	18	30	27126.00	45210.00
14		ik/k d pkjk vkj rjQ 2 fe- ifjf/k dVhyh >kfM;k dh ckM yxkuk e; >kfM;k dk LFkkuh; Lrj l dkVuk - dkVdj ik/k ykdj pkjk rjQ yxkuk A	ifr ik/kk	200	8.2	8.2	1640.00	1640.00
		dy jkf'k					**48626.78**	**72491.90**

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)
Road Side Plantation For MGNREGA

f}rh; o"k l/kkj.k

d- l-	BSR ITEM	fooj.k	bdkb	ek=k	nj		jk'kh	
					Je	dy	Je	dy jk'kh
12		f}rh; o"k iuh jki.k gr 20% jkf'k iFke o"k d ;kx dh					6799.42	10878.38
13		ik/kk dh ifux djuk A	ifr ik/kk	200	1.348	1.35	269.60	270.00
14		o"kk fjr e ik/kk dh nk ckj funkb xMkb djuk (2*200=400 No)	ifr ik/kk	400	1.2	1.2	480.00	480.00
15		ik/kk dk ikuh fiykuk 20 yhVj ifr ik/kk lkr ckjA 200X7=1400 No	ifr ik/kk ifr lkr ckj	1400	1.85	1.85	2590.00	2590.00
16		ikuh [kjhn e; ifjogu 200X7X20=28000 Lit.	ifr Vdj / 4000 lit	7	0	450	0.00	3150.00
		dy jkf'k					**10139.02**	**17368.38**

rrh; o"k l/kkj.k

d- l-	BSR ITEM	fooj.k	bdkb	ek=k	nj		jk'kh	
					Je	dy	Je	dy jk'kh
17		ik/kk dh ifux djuk A	ifr ik/kk	200	1.348	1.35	269.60	270.00
18		o"kk fjr e ik/kk dh nk ckj funkb xMkb djuk (2*200=400 No)	ifr ik/kk	400	1.2	1.2	480.00	480.00
19		ik/kk dk ikuh fiykuk 20 yhVj ifr ik/kk lkr ckjA 200X7=1400 No	ifr ik/kk ifr lkr ckj	1400	1.85	1.85	2590.00	2590.00
20		ikuh [kjhn e; ifjogu 200X7X20=28000 Lit.	ifr Vdj / 4000 lit	7	0	450	0.00	3150.00
		dy jkf'k					**3339.60**	**6490.00**
		rhuk o"k dk dy ;kx					**62105.39**	**96350.28**

Total Cost/ Ha	Labour Cost/ Ha	Material Cost/ Ha		
			Labour cost	62105
			Add.30% reduction	26612
96350	**62105**	**34245**	Meterial	34245
			Add.3% water,Aaya	2662
			Total	**125624**
			Contengency 2%	2512
			Grand Total	**128136**

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5

P.S. - SIROHI, DISTT. - SIROHI (RAJ.)

Road Side Plantation For Watershed Scheme

iFke o"k l/kkj.k

d- l-	BSR ITEM	fooj.k	bdkbZ	ek=k	nj		jk'kh	
					Je	dy	Je	dy jk'kh
1	2(B)	dBkj feVVh e [kMMk [knkb dk; 0.60 * 0.60 * 0.60 = 0.216 Cum X 200 No = 43.20 Cum	Per Cum	43.20	92	92	3974.4	3974.4
2	2(B)	dBkj feVVh e fjx [knkb dk;	Per Cum	118.69	92	92	10919.5	10919.5
3		xMMk e Hkju gr ckgj l ihyh feVVh d; dj ifjogu e; xMMk e Hkjkb vkl ru 20 ifr'kr xMMk e 91+41.70=132.70 cum	Per Cum	8.64	91	132.7	786.24	1146.53
4	SP	ik/kk [kjhn ou foHkkx dh uljh l nk o"k dk ik/kk	ifr ik/kk	220	0	8	0.00	1760.00
5		ik/k ifjogu 20 fdeh- l vf/kd njh l	ifr 1000 ik/kk	220	196	2654	43.12	583.88
6	144	[kn g, xMMk dk dhVuk'kd nok l mipkjhr djuk A	ifr ik/kk	200	0.55	0.55	110.00	110.00
7		dhVuk'kd nok [kjhn dk;	ifr ik/kk	200	0.5	1	100.00	200.00
8	147	ik/kk dk jki.k	ifr ik/kk	200	3.6	3.6	720.00	720.00
9	151(A)	ty ljf{k.k gr Fkkoyk cukuk 50 leh- v/n0;kl eA	ifr Fkkoyk	200	2.4	2.4	480.00	480.00
10	148	ik/kk dk ikuh fiykuk 20 yhVj ifr ik/kk lkr ckjA 200X7=1400 No	ifr ik/kk ifr lkr	1400	1.85	1.85	2590.00	2590.00
11	SP	ikuh [kjhn e; ifjogu 200X7X20=28000 Lit.	ifr Vdj / 4000 lit	7	0	450	0.00	3150.00
12	150	o"kk fjr e ik/kk dh nk ckj funkbZ xMkbZ djuk (2*200=400 No)	ifr ik/kk	400	1.2	1.2	480.00	480.00
13		Fkkj Qflx dk; fjx d vUnj	Rmt	1507	24	31	36168.00	46717.00
14	154	ik/k d pkjk vkj rjQ 2 fe- ifjf/k dVhyh >kfM;k dh ckM yxkuk e; >kfM;k dk LFkkuh; Lrj l dkVuk dkVdj ik/k ykdj pkjk rjQ yxkuk A	ifr ik/kk	200	8.2	8.2	1640.00	1640.00
		dy jkf'k					**58011.24**	**74471.29**
		Contengency 3%						**2234.14**
		dy jkf'k iFke o"k						**76705.43**

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5

P.S. - SIROHI, DISTT. - SIROHI (RAJ.)

Road Side Plantation For Watershed Scheme

f}rh; o"k l/kkj.k

d- l-	BSR ITEM	fooj.k	bdkbZ	ek=k	nj		jk'kh	
					Je	dy	Je	dy jk'kh
12		f}rh; o"k iuh jki.k gr 20% jkf'k iFke o"k d ;kx dh					8627.10	11197.06
13		ik/kk dh ifux djuk A	ifr ik/kk	200	1.53	1.53	306.00	306.00
14	150	o"kk fjr e ik/kk dh nk ckj funkbZ xMkbZ djuk (2*200=400 No)	ifr ik/kk	400	1.2	1.2	480.00	480.00
15	148	ik/kk dk ikuh fiykuk 20 yhVj ifr ik/kk lkr ckjA 200X7=1400 No	ifr ik/kk ifr lkr ckj	1400	1.85	1.85	2590.00	2590.00
16		ikuh [kjhn e; ifjogu 200X7X20=28000 Lit.	ifr Vdj / 4000 lit	7	0	450	0.00	3150.00
		dy jkf'k					**12003.10**	**17723.06**
		Contengency 3%						**531.69**
		dy jkf'k f}rh; o"k					**12003.10**	**18254.75**

rrh; o"k l/kkj.k

d- l-	BSR ITEM	fooj.k	bdkbZ	ek=k	nj		jk'kh	
					Je	dy	Je	dy jk'kh
17		ik/kk dh ifux djuk A	ifr ik/kk	200	1.53	1.53	306.00	306.00
18	150	o"kk fjr e ik/kk dh nk ckj funkbZ xMkbZ djuk (2*200=400 No)	ifr ik/kk	400	1.2	1.2	480.00	480.00
19	148	ik/kk dk ikuh fiykuk 20 yhVj ifr ik/kk lkr ckjA 200X7=1400 No	ifr ik/kk ifr lkr ckj	1400	1.85	1.85	2590.00	2590.00
20		ikuh [kjhn e; ifjogu 200X7X20=28000 Lit.	ifr Vdj / 4000 lit	7	0	450	0.00	3150.00
							3376.00	6526.00
		Contengency 3%						**73.78**
		dy jkf'k rrh; o"k					**3376.00**	**6599.78**
		egk;kx						**101560**

MASONARY CHECK DAM

1	Name of w/s :-	SIROHI IWMP - III	
		P.S . SIROHI DISTT. SIROHI (RAJ.)	
2	Name of work :-	CONTRUCTION OF **WALL AT NALLA**	
1	Available crest length	6.00 M	
2	Hight of structure	1.00 M	
3	Top Width	0.6 M	
4	Bottom Width	1.40 M	1.4
5	Depth of foundation taking as	1.30 M	
6	Length of Basin	1.00 M	
7	Head wall ext.	2+2 M	

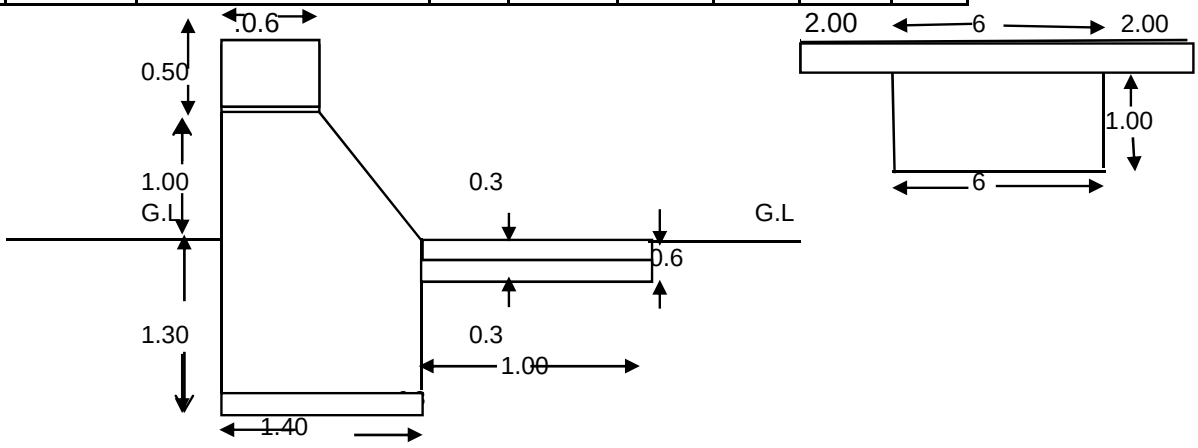
DETAILED ESTIMATE

S. No.	BSR ITEM NO.	PARTICULAR	No.	LENGTH	BREADTH	HT/DEPTH	Qty	Rate	Amount	Lab Rate	L. Amount
1		Total Excavation									
		H.W.	1.00	6.00	1.40	1.30	10.92				
		H.W.EX.	2.00	2.00	0.90	1.30	4.68				
		Apron	1.00	6.00	1.00	0.60	3.60				
					Total	(cu.m)	19.20				
2	189 (B)	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete 100%of TotalExcavation									
					Total		19.20	92.00	1766.40	92.00	1766.40
3	192	cement concrete well mixed in cement mortar(1:3:6) laid in position complete including curing Aggregate size upto 40mm. HB Total									
		Excavation H.W.	1.00	6.00	1.40	0.30	2.52				
		H.W.EX.	2.00	2.00	0.90	0.30	1.08				
		Apron	1.00	6.00	1.00	0.30	1.80				
					Total		5.40	1862	10054.80	260.05	1404.27
4	190 (A)	Random rubble stone masonary in cement sand mortar(1:8) for foundation									
		H.W.	1.00	6.00	1.40	1.00	8.40				
		H.W.EX.	2.00	2.00	0.60	1.00	2.40				
		Apron	1.00	6.00	1.00	0.30	1.80				
					Total		12.60	1426	17967.60	402.00	5065.20
5	190 (A)	Random rubble stone masonary in cement sand mortar(1:8) forsuper structure									
		H.W.	1.00	6.00	1.00	1.00	6.00				
		H.W.EX.	2.00	2.00	0.60	1.50	3.60				
					Total		6.00	1426	8556.00	402.00	2412.00
6	70 (A)	Cement plaster including smooth finishing in cement mortar (1:6)25mm thick									
		H.W.	1.00	6.00	1.00		6.00				
			1.00	6.00	1.30		7.80				
		H.W.EX.	2.00	0.60	0.50		0.60				
		Apron	1.00	6.00	1.00		6.00				
					Total		20.40	153	3121.20	77.65	1584.06

7	194	Cement concrete coping in cement mortar1:2:4.50 mm thick									
		H.W.	1.00	6.00	0.60	0.075	0.27				
		H.W.EX.	2.00	2.00	0.60	0.075	0.18				
		Apron	1.00	6.00	1.40	0.075	0.63				
					Total		1.08	3095	3342.60	434.00	468.72
									44808.60		12700.65
		TOTAL							44808.60		
		Add 3% Contingency Charges							1344.26		
		Total METARIAL							33452.21	SAY	0.335
		Total LABOUR							12700.65	SAY	0.127
		G. TOTAL							46152.86	Say	0.46

MATERIAL CONSUMPTION STAEMENT

NAME OF WORK : RAIN WATER HARVESTING STRUCTURE								
S.no		Particular	Qty.	Cement	Sand	Aggregate		Stone
				Bags	Cum	50mm	20mm	Cum
1		Cement concrete (1:3:6) mm HB (cum) 4.05,0.43,0.86	5.4	21.87	2.322	4.644		
2		R R stone masonary (1:6) Foundation/ Super structure (cum) 1.40, 0.30, 1.10	18.6	26.04	5.58			20.5
3		Cement plaster (1:6)25 mm thick (sqm) 0.153 0.03	20.4	3.1212	0.612			
4		Raised &cut pointing (sqm) 0.0.32, 0.0043						
5		Stone kharanja in cement mortar (1:6)(cum) 1.80, 0.375, 1.20						
6		Cement concrete coping in cement mortar1:1.5:3.75 mm thick 7.33,0.40,0.78	1.08	7.9164	0.432	0.842		
7		Dry stone pitching						
			TOTAL	58.9	8.95	5.49		20.5
		SAY	59	BAGS	2.95	MT		



X-Section

MINOR MASONARY STRUCTURE

1 Name of w/s :- SIROHI IWMP - III

P.S . SIROHI DISTT. SIROHI (RAJ.)

2 Name of work :- CONTRUCTION OF PAKA ANICUT AT **NALLAH**

Design

1	Available crest length	10.00	M
2	Total catchment area	75.00	Ha
3	Hight of structure	1.50	M

A Design discharge (By flood discharge method)

A HYDROLIC DESIGN

Peak rate of run off in cum/sec.=

$Q = \frac{C\ I\ A}{36}$ C= 0.40

Catchment Area 75.00 Ha

Q = 12.50 cumsec

$K = \sqrt{\frac{L^3}{H}}$

L= 420.00 M

Say 13.00 cumsec

H= 6.44 M

K 3391.81

$Tc=0.0195K^{0.}$ 10.20

I = 15.00 cm/hr.

B HYDROLIC DESIGN

$Q = 1.71L(h)^{3/2}$ L = 10.00 mt length available at site

$h =[Q/1.71L]^{2/3}$

h = 0.83 Say = 0.83

Taking free board as 0.3 M

Total d = 1.13

C. STRUCTURAL DESIGN

(I)	Top width of Head wall					
	$h /(p-1)^{0.5}$	0.73	0.73	say =	1.00	M
	(as per site condition where h =		0.83	m p = 2.30	0.83	
	p Specific gravty of stone masnory in cm = 2.3					
(ii)	Bottom width of head wall					
	b = 0.8H+T.W+.3	2.50		Say =	2.50	M
	H =heigth of head wall in meters =		1.5	m	1.50	M
(iii)	Length of head wall extension					
	H +d + 1	3.63			3.70	M
	d = h+free board =	1.13			1.20	M
	but as per side condition L/S M	4	R/S M	4	8.00	M
(iv)	Heigth of Head wall extension					
	H + d =				2.63	M
(v)	Botton width of HW ext. side wall & wing wall					
	0.5(H+h)=	1.17			1.20	M
(vi)	Top width of HW ext					
	0.4H=	0.6			0.80	M
(vii)	APRON WIDTH					
	=H+d	2.63			2.70	M

(viii)	Thickness of Basin =0.60m(incloding concreting)			
(ix)	Height of side wall			
	H+d =	2.63	2.70	M
(x)	Height of side wall =1.5h at W W joints			
	1.5d =	1.70	1.70	M
(xi)	Length of side wall = B. W. of H. W -B.W of H W E+Apron width+ width of toe wall			
		4.45		
(xii)	Length of wing wall = 2.25 d	2.55	2.60	M
(xiii)	Height of the wing wall =	1.70	1.70	M
(xiv)	Top width of Head wall ext site wall wing wall = 0.60mt			
(xv)	Width of toe wall=		0.45	M
(xvi)	Height of toe wall =		0.30	M
(xvii)	Height of wing wall at wing end =		1.70	M
(xviii)	Bottem width of the side wall &wing wall taking as per Bottom width			
	of the head wall ext as in item no.5= m		1.20	M
(xix)	Depth of foundation taking as		2.00	M

STABILITY CHECK'S

a Top width of anicut = 1.00 m

b Bottm width of anicut = 2.50 m

$w_1 + w_2$ self weight of anicut

p_1 Pressure due to water besswall

p_2 Horizontal water pressure

p_3 Up lift pressure

h Food heigth = 0.83 m

H heigth of anicut = 1.50 m

L considening one metre = 1

S 2.3

C 0.6

Forces acting on a over flow gravity dam

Forces and momrnt calculation's

considening one metre length of ancut and taking

Restoring moment as positive (+ ve) and overturning moment as negative (-ve)

moment taken at B

s. no.		Forces	v- vertical forces	H- horizontal forces	Force acting at a distance from B	moment at B 2x5	
						+ ve	-ve
1		w_1 = a x H xLxS					
		3.45	3.45		2.20	7.59	
2		w2 = 1/2x(b-a)xHxLxS					
		2.59	2.59		1.13	2.92	
3		p_1 =wh x H					
		1.25		1.25	0.90		1.12
4		p_2 =wH^2/2 x H					
		1.13		1.13	0.60		0.68
5		p_3 =cxwbx(H+h)/2					
		1.35	1.35		1.80		2.43
		TOTAL	4.69	2.37		10.51	4.23

Em=mr-mo

6.28

CHECKS IN OVERTURNING

Factor of satety agaist overturning

Emr/Emo =+m/-m = Restoning moment/overturning moment

2.49

it is more than 1.50 hance structure is safe against overturning

SLINDING

Factor of safety against slinding

Ev/Eh = 1.97

it is more than 1.0 hance structure is safe against slinding

RUPTURE (safety against tension at the bese)

X Relne Position of resultant measured from toe

x = Em/Ev = 1.34

e = b/2 - X -0.09

Ev/b (1+6e/b) 1.66

Ev/b (1-6e/b) 2.09

P max = 1.66

P min = 2.09

ABSTRACT OF COST

Name of work :-WHS :-Anicut

S. No	Item No.	Particular	Qty.	Rate	Per	Amount	Labour Rate	L. Amount
1	189 (B)	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	14.39	75.00	cum	1079.03	75.00	1079.025
2	189 (C)	Excavation in ordinary murram or earth mixed with bajri and kankar or boulder dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	43.16	92.00	cum	3970.81	92.00	3970.812
3	2 (C)	Excavation in disintegrated rock and or soft rock or hard bankar or compacted murrum dry or moist including dressing&disposal of exeavated matarual with intial lead of 30m and lift of 1.5m	86.32	134.00	cum	11567.15	134.00	11567.148
4	192	cement concrete well mixed in cement mortar(1:3:6) laid in position complete including curing Aggregate size upto 40mm. HB	26.78	1862.00	cum	49860.64	260.05	6963.6189
5	190 (A)	Random rubble stone masonary in cement sand mortar(1:6) for foundation	103.89	1426.00	cum	148149.99	402	41764.584
6	190 (A)	Random rubble stone masonary in cement sand mortar(1:6) forsuper structure	94.69	1426.00	cum	135030.51	402	38066.103
7	70 (A)	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	102.04	153.00	cum	15612.25	77.65	7923.4738
8	194	Cement concrete coping in cement mortar1:2:4100mm thick	2.56	3095.00	cum	7915.46	434	1109.955
9	188 (B)	E/W for bind / embankment in dry or mosit soil including laying on layers 1.5cm Breaking of clods sort ing of grass pabbles ete and dressing in requred profile when compacted manually or by plain roller with initial lead of 30mt and lift 1.5 mt (exeluding charges of waterring and compaction) Hard soil	0.00	92.00	cum	0.00	92.00	0
			TOTAL			373185.83		112444.72
		TOTAL				373185.83		
		Add 3% Contingency Charges				11195.58		
		Total METARIAL				271936.69	SAY	2.719
		Total LABOUR				112444.72	SAY	1.124
		G. TOTAL				384381.41	Say	3.84

Prepared by checked by Approved by

DETAILED ESTIMATE

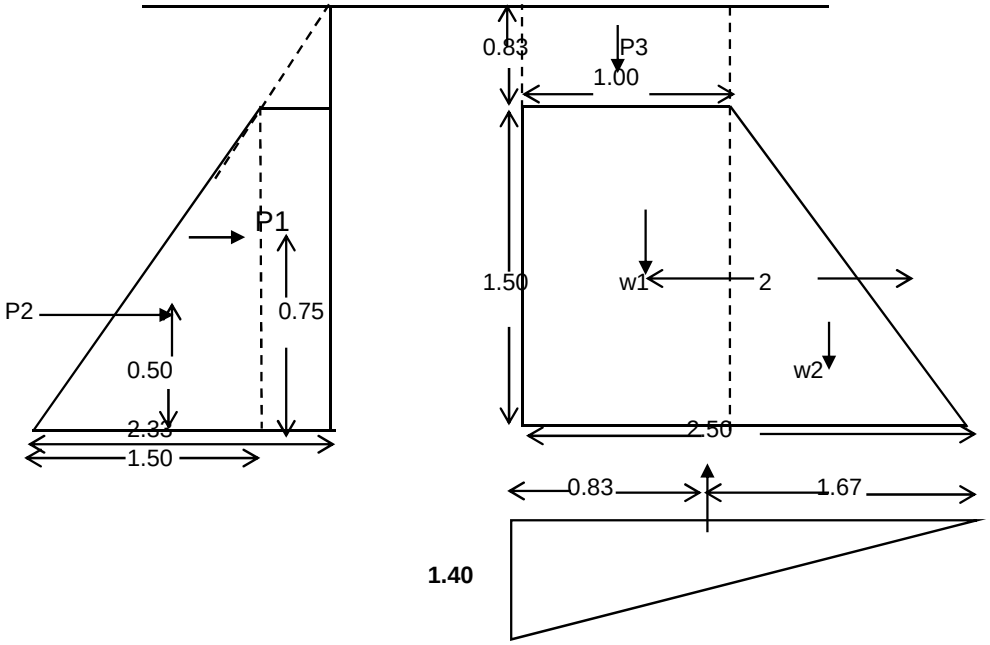
S.No.	PARTICULAR	No.	LENGTH	BREADTH	HT/DEPTH	QUANTITY
1	Total Excavation	1.00	10.00	2.50	2.00	50.00
	H.W.	1.00	8.00	1.20	2.00	19.20
	H.W.E.	2.00	4.45	1.20	2.00	21.36
	S.W.	4.00	2.60	1.20	2.00	24.96
	wing wall	1.00	10.00	0.45	0.90	4.05
	Toe wall	1.00	10.00	2.70	0.90	24.30
	Apron			Total	(cu.m)	143.87
2						
	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete 10%of Total Excavation			Total		14.39
3						
	Excavation in ordinary murram or earth mixed with bajri and kankar or boulder dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete 30% of Total Excavation			Total		43.16
4						
	Excavation in disintegrated rock and or soft rock or hard bankar or compacted murrum dry or moist including dressing&disposal of exeavated matarual with intial lead of 30m and lift of 1.5m 60% of Total Excavation			Total		86.32
5		1.00	10.00	2.50	0.30	7.50
	cement concrete well mixed in cement mortar(1:3:8) laid in position complete including curing Aggregate size upto 50mm. HB Total Excavation H.W.	1.00	8.00	1.20	0.30	2.88
	H.W.E.	2.00	4.45	1.20	0.30	3.20
	S.W.	4.00	2.60	1.20	0.30	3.74
	Wing Wall	1.00	10.00	0.45	0.30	1.35
	Toe Wall	1.00	10.00	2.70	0.30	8.10
	Apron			Total		26.78
6						
	Random rubble stone masonary in cement sand mortar(1:6) for foundation	1.00	10.00	2.20	1.70	37.40
	H.W.	1.00	8.00	1.20	1.70	16.32
	H.W.E.	2.00	4.45	1.20	1.70	18.16
	S.W.	4.00	2.60	1.20	1.70	21.22
	Wing Wall	1.00	10.00	0.45	0.60	2.70
	Toe Wall	1.00	10.00	2.70	0.30	8.10
	Apron			Total		103.89

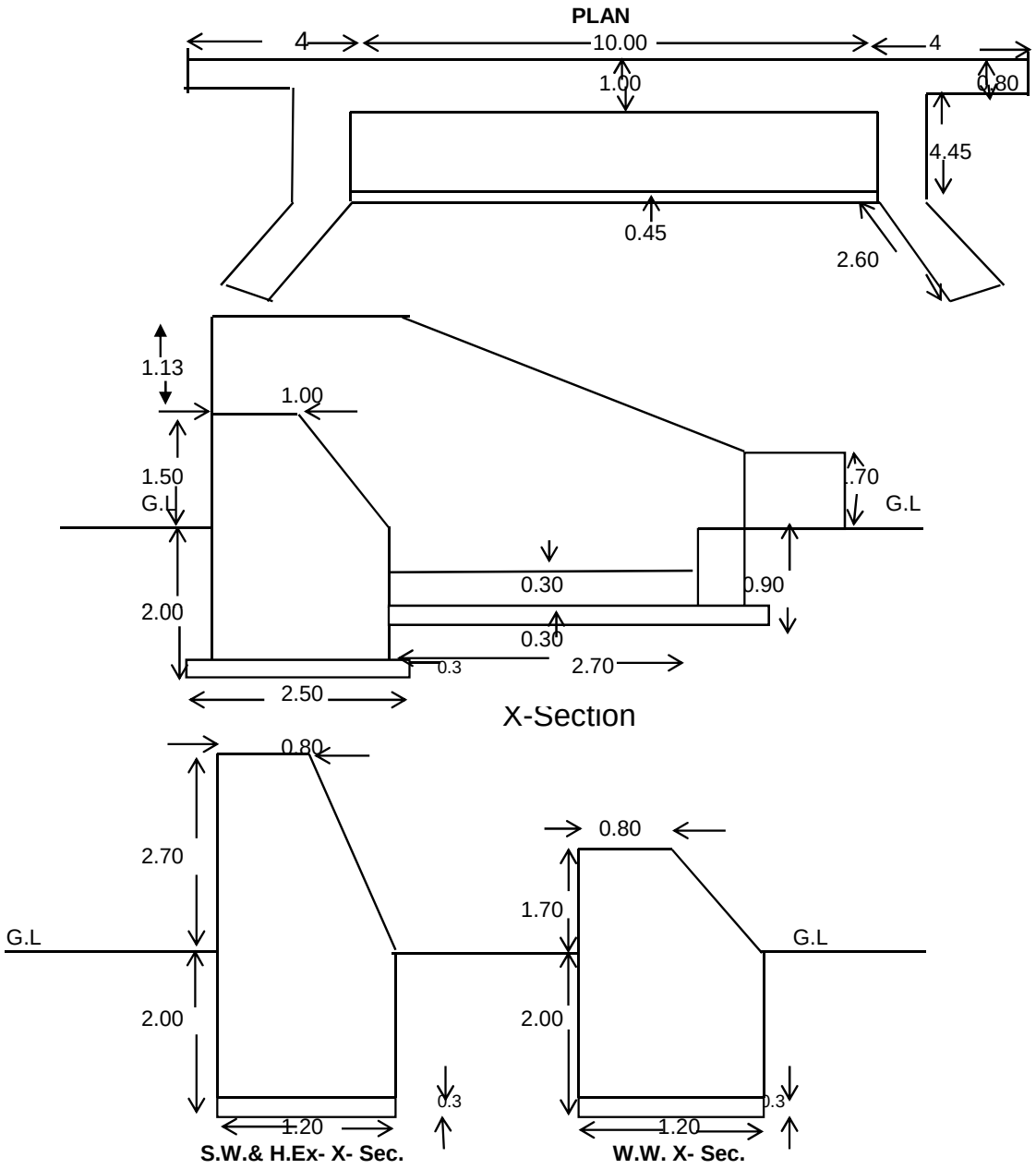
7	Random rubble stone masonary in cement sand mortar(1:6) forsuper structure					
	H.W.	1.00	10.00	1.60	1.50	24.00
	H.W.E	1.00	8.00	1.00	2.63	21.06
	S.W.	2.00	3.15	1.00	2.17	13.65
		2.00	1.30	1.00	2.63	6.85
		2.00	0.40	1.00	1.32	1.05
	Wing Wall	4.00	2.60	1.00	2.70	28.08
				Total		94.69
8	Cement plaster including					
	H.W.	1.00	10.00	1.50		15.00
		1.00	10.00	1.80		18.00
		1.00	10.00	0.30		3.00
	S.W.	2.00	1.00	1.13		2.27
		2.00	1.50	1.88		2.27
		2.00	3.15	2.17		13.65
		2.00	2.70	0.30		1.62
	Wing Wall	2.00	2.60	1.70		8.84
		2.00	1.00	1.70		3.40
	H.W.E.	1.00	8.00	0.50		4.00
	Toe Wall	1.00	10.00	0.30		3.00
	Apron	1.00	10.00	2.70		27.00
				Total		102.04
9	Cement concrete coping in					
	H.W.	1.00	10.00	1.00	0.08	0.75
	S.W.	2.00	5.65	0.80	0.08	0.68
	Wing Wall	2.00	2.60	0.80	0.08	0.31
	H.W.E.	1.00	8.00	0.80	0.08	0.48
	Toe.Wall	1.00	10.00	0.45	0.08	0.34
	Apron	0.00	10.00	2.70	0.10	0.00
				Total		2.56
10	E/W for bind / embankment in	0				0.00
				Total		0.00

MATERIAL CONSUMPTION STAEMENT

NAME OF WORK : RAIN WATER HARVESTING STRUCTURE ANICUT								
S.no		Particular	Qty.	Cement	Sand	Aggregate		Stone
				Bags	Cum	50mm	20mm	Cum
1		Cement concrete (1:3:6) mm HB (cum) 4.05,0.43,0.86	26.78	108.45	11.51	23.03		
2		R R stone masonary (1:6) Foundation/ Super structure (cum) 1.40, 0.30, 1.10	198.58	278.02	59.58			218.44
3		Cement plaster (1:6)25 mm thick (sqm) 0.153 0.03	102.04	15.61	3.06			
4		Raised &cut pointing (sqm) 0.0.32, 0.0043						
5		Stone kharanja in cement mortar (1:6)(cum) 1.80, 0.375, 1.20						
6		Cement concrete coping in cement mortar1:1.5:3.75 mm thick 7.33,0.40,0.78	2.56	18.75	1.02	1.99		
7		Dry stone pitching						
			TOTAL	420.83	75.17	25.02		218.44

SAY 421 BAGS 21.04 MT




PLAN
4
10.00
4
1.00
0.80
4.45
0.45
2.60
1.13
1.00
1.50
G.L
1.70
G.L
0.30
0.90
2.00
0.30
0.3
2.70
2.50
X-Section
0.80
2.70
G.L
2.00
0.3
1.20
S.W.& H.Ex- X- Sec.
0.80
1.70
G.L
2.00
0.3
1.20
W.W. X- Sec.

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5
P.S. -SIROHI, DISTT. -SIROHI (RAJ.)
L.S.C.D.

MNREGA

S. N	Details of work	Qty	Unit	Rate		Amount	
				LC	TC	LC	TC
1	Excavation of earth work in hard soil((4+1+1)*2*.15)+(1+1)*1*1 = 3.80cum	3.50	cum	92.00	92.00	322.0	322.0
2	DRY STONE MASONARY 4*(1+2)/2*1=6.00cum	10.50	cum	320.30	847.00	3363.15	8893.50
	Total					**3685.2**	**9215.5**

tkM 3 % dfUVu tyh	276.47
dy ;kx	9491.97
SAY	9492
ykxr Je en e	**3685**
ykxr lkexh en e	**5807**
dy ;kx	**9492**

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)

1-	dk; dk Ukke& Qke ik.M fuek.k dk;											
	in dh pkMkb 10 eh- & Åij dh pkMkb 20 eh- & xgjkb 2 ehVj											
2-	;ktuk dk uke& MNREGA											
Ø-l-	dk; dk fooj.k	l0	in dk {k=Qy	Åij dk {k=Qy	vkl r {k=Qy	xgjkb	ek=k	bdkb	nj		jkf'k	
									Je	dy	Je	;kx
1	uho] [kkb] ijukyk e 1-5 xgjkb rd feêh dh [knkb djuk] ry dk dVuk] ikuh Mkyuk] cxy dk lokjuk] [knh feêh dk ckgj fudkyuk] uho Hkju d ckn [kkyh LFkkuk dk iuh feêh l Hkjuk rFkk cph gb feêh dk 50 ehVj dh njh rd fuLrkj.k djukA											
A-	l[r] fpduh] ddj feêh e 80 ifr- vkl r	1	100	400	250	1.6	400	?ku eh-	92.00	92.00	36800.00	36800.00
B-	fo?kfVr pVVku @eje 20 ifr- vkl r	1	100	400	250	0.4	100	?ku eh-	134.00	134.00	13400.00	13400.00
2	vfrfjDr fy¶V dk dk;	1	100	156.25	128.125	0.5	64.06	l[;k	11.00	11.00	704.69	704.69
3	vfrfjDr yhM dk dk;	1	100	400	250	1	250	l[;k	33.75	33.75	8437.50	8437.50
	Total									Total	59342.19	59342.19
	Je Hkkx e 30 % VkLd dh deh d dkj.k vfrfjDr tkMuk										25428.127	25428.13
											;kX	**84770**	**84770.31**
	tkM 3 % ikuh okyk vk;k										2543.11	2543.11
											;kX	**87313**	**87313.42**
	tkM 2 % dfUVu tl h											1746.27
											dy ;kx		89060
											SAY		89100
					ykxr Je en e								**87310**
					ykxr lkexh en e								**1790**
					dy ;kx								**89100**

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)

OPEN LAND CONTOUR TRENCH							
Total length of CCT per ha =300 Rm/ha						;ktuk & jk-xk-jk-xk-;k-	
C X= 0.2025 Cum							
	Total Area in Ha	1					
S.no.	**Item**	**Quantity**	**Unit**	**Rate**		**Amount**	
				Labour	**Total**	**Labour**	**Total**
1	Marking of contour line through dumpy level	300	Rmt	0.24	0.27	72.00	81.00
2	Dug belling work for CCT up to 5-7 cm depth (As per BSR2012 (2X300=600)	600	Rmt	0.88	0.88	528.00	528.00
	Quantity of E/W (300Rmt X 0.2025=60.75 cum)	60.75	Cum				
3	Excavation of hard soil for CCT as per BSR201 40%	24.3	Cum	74.00	74.00	1798.20	1798.20
4	Excavation of murram for CCT as per BSR2012 60%	36.45	Cum	90.00	90.00	3280.50	3280.50
5	Sowing of local grass seed on bunds As per BSR2012 (3X300=900)	900	Rmt	0.52	0.52	468.00	468.00
6	Grass seed					0.00	0.00
A	Spreeding of Grass seed	1	Ha	141	141	141.00	141.00
B	Making of pallets	12	Kg	16.3	16.8	195.60	201.60
C	Dhaman	12	Kg	0	50	0.00	600.00
	Total cost for CCT					**6483.30**	**7098.30**
	Je Hkkx e 30 % VkLd dh deh d dkj.k vfrfjDr tkMuk					2778.094	2778.09
	;kx					**9261**	**9876.39**
	tkM 3 % ikuh okyk vk;k					277.84	277.84
	;kx					**9539**	**10154.24**
	tkM 2 % dfUVu tlh						203.08
	dy ;kx						10357
	SAY						10400
				ykxr Je en e			**9540**
				ykxr lkexh en e			**860**
				dy ;kx			**10400**

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5

Qynkj ik/kk jki.k (W/S)

S.NO.	TYPE OF PLANTS	UNIT Hact.	UINT COST /Ha.	Total Cost
1	BER	15	31401	471015
2	MENGO	17	48268	820556
3	NEEBU	14	31401	439614
4	AWALA	15	49751	746265
TOTAL(C)		**61**		**2477450**
Av. Per Hac.				**40614.00**

Qynkj ik/kk jki.k (MNREGS)

S.NO.	TYPE OF PLANTS	UNIT Hact.	UINT COST /Ha.	Total Cost
1	BER	15	37977	569655
2	MENGO	17	52423	891191
3	NEEBU	14	37977	531678
4	AWALA	15	54714	820710
TOTAL(C)		**61**		**2813234**
Av. Per Hac.				**46119.00**

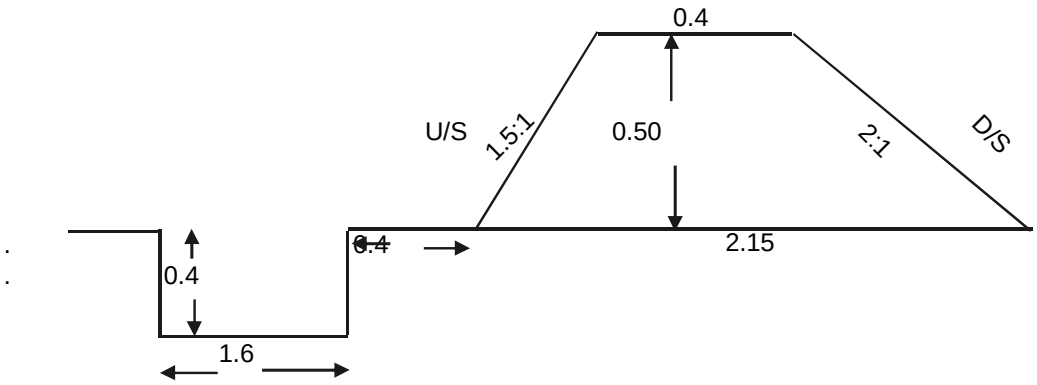
SIROHI (IWMP - III) W/S - 6/1,2,3,4,5

P.S. -SIROHI, DISTT. - SIROHI (RAJ.)

MODEL ESTIMATE OF ARABLE LAND NRM W/S							
A	Cross section of bund-	0.64	Sqm		Top Width		0.4
B	Length -	100	Rmt		Bottom Width		2.15
					Height		0.5
S. No.	**Item**	**Quantity**	**Unit**	**Labour Rate**	**Total Rate**	**Labour Amount**	**Total Amount**
1	Dug belling work up to 5-7 cm depth 4x100=400m	400	Rm	1.00	1.00	400.00	400.00
2	Earth work in hard soil for construction of bund including ramming compaction and dressing up to the lead of 50m and lift 1.5 m 0.64x100=64 cum	64	Cum	92.00	92.00	5888.00	5888.00
	Total					**6288.00**	**6288.00**
	Say Rs					**6288**	**6288**
		Contingency @ 3%					189
		Grand Total					**6477**
		Say am			**6477**		
		Per Rmt	**64.77**				

Avarage length per Rm/Ha = 112 Rm **Per Ha Cost** 7254.24

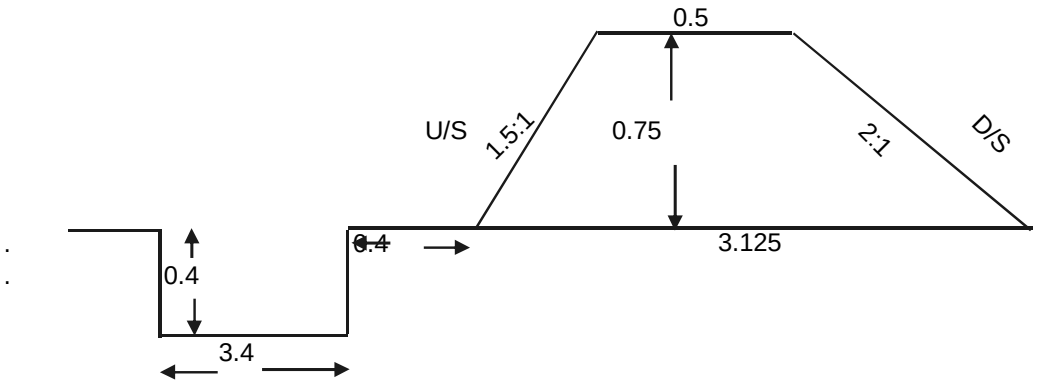
Say am 7254



SIROHI (IWMP - III) W/S - 6/1,2,3,4,5

P.S. -SIROHI, DISTT. - SIROHI (RAJ.)

MODEL ESTIMATE OF BANK STABILAIZATION NRM W/S							
A	Cross section of bund-	1.36	Sqm		Top Width		0.5
B	Length -	100	Rmt		Bottom Width		3.125
					Height		0.75
S. No.	**Item**	**Quantity**	**Unit**	**Labour Rate**	**Total Rate**	**Labour Amount**	**Total Amount**
1	Dug belling work up to 5-7 cm depth 4x100=400m	400	Rm	1.00	1.00	400.00	400.00
2	Earth work in hard soil for construction of bund including ramming compaction and dressing up to the lead of 50m and lift 1.5 m 0.64x100=64 cum	136	Cum	92.00	92.00	12512.00	12512.00
	Total					**12912.00**	**12912.00**
	Say Rs					**12912**	**12912**
		Contingency @ 3%					387
		Grand Total					**13299**
		Say am			**13299**		
		Per Rmt	**133**				
		Say am	**133**				



SIROHI (IWMP - III) W/S - 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)

DETAILED ESTIMATE OF ONE DAY TRAINING

S.No	Activity	No of Trainees	Rates	Total Am (Rs)	Reference.	Remark
1	Meal Expenses	50	75/- per trainees/day	3750	Cir.No; F-7(60)-fu t-Hk- l- @if'k{k.k @ 2011-&12@729&814 Dt 10.05.2011	
2	Honorium of Resource person	50	250/- per lecture (4 lecture/day)	1000	Cir.No; F-7(60)-fu t-Hk- l- @if'k{k.k @ 2011-&12@729&814 Dt 10.05.2011	
3	POL (two days jeep Hire Charges)	50	500/- per day	1000	Cir.No; 1147-1200. Dt 12.07.04 Dir. WDSC, Jaipur Item No 7	
4	Literature & stationary	50	50/- per trainees	2500	Cir.No; 1147-1200. Dt 12.07.04 Dir. WDSC, Jaipur Item No 11	
5	Seating arrangement (tent,matting,chairs,etc)	50	750/-	750	Cir.No; 1147-1200. Dt 12.07.04 Dir. WDSC, Jaipur Item No 10	
6	Miscellaneous charges	50	0	300	Cir.No; 1147-1200. Dt 12.07.04 Dir. WDSC, Jaipur Item No 12	
TOTAL AMOUNT				**9300**		

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)

DETAILED ESTIMATE OF TWO DAYS TRAINING

S.No	Activity	No of Trainees	Rates	Total Am (Rs)	Reference.	Remark
1	Daily Allowance for lodging / boarding for residential training within the district.	50	125/- per trainees/day	12500	Cir.No; 729-814. Dt 9.05.11 Dir. WDSC, Jaipur Item No 2	
2	Honorium of Resource person	50	250/- per lecture (2 Hr /lecture/day)	2000	Cir.No; 729-814. Dt 9.05.11 Dir. WDSC, Jaipur Item No 5	
3	POL (three days jeep Hire Charges)	50	500/- per day	1500	Cir.No; 1147-1200. Dt 12.07.04 Dir. WDSC, Jaipur Item No 7	
4	One Day Bus Hire Charge for side visit within 300 km	50	0.42/-per km / member	6300		
5	Literature & stationary	50	100/- per trainees	5000	Cir.No; 1147-1200. Dt 12.07.04 Dir. WDSC, Jaipur Item No 11	
6	Seating arrangement (tent,matting,chairs,etc)	50	1500/-	1500	Cir.No; 1147-1200. Dt 12.07.04 Dir. WDSC, Jaipur Item No 10	
7	Miscellaneous charges	50	0	500	Cir.No; 1147-1200. Dt 12.07.04 Dir. WDSC, Jaipur Item No 12	
8						
			TOTAL AMOUNT	**29300**		

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)

DETAILED ESTIMATE OF PADYATRA (Railly)

S.No	Activity	No of Trainees	Rates	Total Am (Rs)	Remark
1	Meal Expenses	100	75/- per trainees/day	7500	
2	POL (two days Two jeep Hire Charges)	100	500/- per day	2000	
3	One Day small truck Hire Charge for Railly	100	1100/- per day	1100	
4	Two day tractor Hire Charge for Railly min. 4 tractor	100	1000/- per day	8000	
5	Material for construction of model	100	L S	5000	
6	Literature & stationary for Exivation	100	100/- per trainees	10000	
7	Seating arrangement (tent,matting,chairs, mike, etc)	100	2000/-	2000	
8	Photography,Video	100	For one days	500	L.S
9	Purchase of Banner	100	20 No of Banner	4000	L.S
10	Expenditure for Break fast	100	75/- per trainees/day	7500	
11	Water tanker for Drinking	100	500/- per day	1000	
12	Miscellaneous charges	100	L.S	2000	
13					
			TOTAL AMOUNT	**50600**	

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)

PRAPOSED ESTIMATE FOR EDUCATIONAL TOUR UNDER WATERSHED DEVLOPMENT PROGRAME (WITH IN DISTT.)

PARTICIPANTS-50

DURATION-SEVEN NIGHT & SIX DAYS

TOTAL DISTANCE - 1800KM

S.No	HEAD	UNIT CHARGES	No. OF Participants	Amount Rs	Remarks
1	Travelling Allowances & Local	756	50	37800	
2	Daily Allowances for loading & boarding of trainees	200x6	50	60000	
3	Stationery & training material (per trainees)	150	50	7500	
4	D.A. of Resource person with the tour	250	12	3000	
5	POL (seven days jeep Hire Charges)	500	7 Days	3500	
6	Other Expenses	3200	L.S.	3200	
			TOTAL AMOUNT	**115000**	

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5

P.S. - SIROHI, DISTT. - SIROHI (RAJ.)

MODEL ESTIMATE OF HORTICULTURE PLANTATION

Aawla NRM

Total plant	400	No	C/C	5mx5m
Thor fencing	100	Rmt/Ha		
Thor Danda	700	per ha		W/S

S.N	Details of work	Qty	Unit	Rate		Amount	
				Lc	Total	Lc	Total
1	Excavation of earth work in hard soil for digging of pits, 0.75 x0.75 x0.90 = 0.5062cum	202.50	Cum	92.00	92.00	18630	18630
2	Excavation of earth work for thor fencing pit size 0.15x0.15m	2.25	Cum	92.00	92.00	207	207
3	Dag balling work up to 5 to 7 cm depth	100	Rmt.	1.00	1.00	100.00	100.00
4	Supply and cutting of 80 cm thor sticks. 7 Danda /-Rmt	700.00	Per 100 stick	74.30	174.00	520.10	1218.00
5	Transportation cost of thor sticks through bullock cart from 5 km distance, loading & unloading.	700.00	Per 100 stick	100.00	100	700.00	700.00
6	Rehandling work of thor sticks up to 200 to 500mt distance.	700.00	Per 100 stick	76.50	76.5	535.50	535.50
7	Planting work of Thor sticks in 15 cm distance.	100.00	Rmt.	6.93	6.93	693.00	693.00
8	Treatment of pits						
a	Through chemicals	400	Per plant	0.55	0.55	220.00	220.00
b	Through mannure	400	Per plant	0.27	0.27	108.00	108.00
9	Planting of plant with rehandling upto 100m,refilling of soil & compaction etc	400	Per plant	7.40	7.40	2960.00	2960.00
10	Cost of Plant including transportation	400	Per plant	0.00	21.00	0.00	8400.00
11	Making of thanwala,of 50 cm radious	400	Per plant	2.40	2.40	960.00	960.00
12	Weeding & hoeing three times in the year (400x3x3=3600)	3600	Per plant	1.20	1.20	4320.00	4320.00
13	Cost of Mannure including transportation	400	Per Kg	0.50	2.00	200.00	800.00
14	Cost of Chemical including transportation	400	Per plant	0.50	1.00	200.00	400.00
	Total					30353.60	40251.50
15	Gap filling 20%					6070.72	8050.30
	Total					**36424.32**	**48301.80**
	Say Rs					**36424**	**48302**
	Contengency 3%						1449
	Grand total						**49751**

Labour Am	**36424**
Meterial Am	**13327**
Total Am	**49751**

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5

P.S. - SIROHI, DISTT. - SIROHI (RAJ.)

MODEL ESTIMATE OF HORTICULTURE PLANTATION

Nimbu

Total plant	277	No		W/S
Thor fencing	100	Rmt/Ha	C/C	6mx6m
Thor Danda	700	per ha		

S.N	Details of work	Qty	Unit	Rate		Amount	
				Lc	Total	Lc	Total
1	Excavation of earth work in hard soil for digging of pits, 0.75 x0.75 x0.90 = 0.5062cum	140.23	cum	92	92.00	12901.28	12901.28
2	Dag balling work up to 5 to 7 cm depth	100	Rmt.	1.00	1.00	100.00	100.00
3	Supply and cutting of 80 cm thor sticks. (7 Danda /-Rmt)	700.00	Per 100 stick	74.30	174.00	520.10	1218.00
4	Transportation cost of thor sticks through bullock cart from 5 km distance, loading & unloading.	700.00	Per 100 stick	100.00	100.00	700.00	700.00
5	Rehandling work of thor sticks up to 200 to 500mt distance.	700.00	Per 100 stick	76.50	76.50	535.50	535.50
6	Planting work of Thor sticks in 15 cm distance.	100.00	Rmt.	6.93	6.93	693.00	693.00
7	Treatment of pits						
a	Through chemicals	277	Per plant	0.55	0.55	152.35	152.35
b	Through mannure	277	Per plant	0.27	0.27	74.79	74.79
8	Planting of plant with rehandling upto 100m,refilling of soil & compaction etc	277	Per plant	7.40	7.40	2049.80	2049.80
9	Cost of Plant including transportation (7+2=9)	277	Per plant	0.00	9.00	0.00	2493.00
10	Making of thanwala,of 50 cm radious	277	Per plant	2.40	2.40	664.80	664.80
11	Weeding & hoeing three times in the year (277x3x3=2493)	2493	Per plant	1.20	1.20	2991.60	2991.60
12	Cost of Mannure including transportation	277	Per Kg	0.50	2.00	138.50	554.00
13	Cost of Chemical including transportation	277	Per plant	0.50	1.00	138.50	277.00
	Total					21660.22	25405.12
14	Gap filling 20%					4332.043	5081.02
	Total					**25992.26**	**30486.14**
						25992	30486
	Contengency 3%						915
	Grand total						**31401**

Labour Am	**25992**
Meterial Am	**5408**
Total Am	**31401**

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5

P.S. - SIROHI, DISTT. - SIROHI (RAJ.)

MODEL ESTIMATE OF HORTICULTURE PLANTATION

Aawla Plantation NRM **MNREGA**

Total plant 400 No

S.N	Details of work	Qty	Unit	Rate		Amount	
1	Excavation of earth work in hard soil for digging of pits, 0.75 x0.75 x0.90 = 0.5062cum	202.50	cum	90.00	90.00	18225.00	18225.00
2	Excavation of earth work for thor fencing pit size 0.15x0.15m	2.25	cum	90.00	90.00	202.50	202.50
	Total					**18427.50**	**18427.50**
	Je Hkkx e 30 % VkLd dh deh d dkj.k vfrfjDr tkMuk					7896.1838	7896.18
	;kx					**26324**	**26323.68**
	tkM 3 % ikuh okyk vk;k					789.71	789.71
	;kx					**27113**	**27113.39**
	tkM 2 % dfUVu tlh						542.27
	dy ;kx						27656
	SAY						24181
				ykxr Je en e			**22233**
				ykxr lkexh en e			**1948**
				dy ;kx			**24181**

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)
MODEL ESTIMATE OF HORTICULTURE PLANTATION

Aawla Plant Prodection

Total plant	400	No	C/C	5mx5m
Thor fencing	100	Rmt/Ha		
Thor Danda	700	per ha		MNREGS

S.N	Details of work	Qty	Unit	Rate		Amount	
				Lc	Total	Lc	Total
1	Dag balling work up to 5 to 7 cm depth	100	Rmt.	0.88	0.88	0.88	0.88
2	Supply and cutting of 80 cm thor sticks. 7 Danda /-Rmt	700.00	Per 100 stick	65.50	165.00	458.50	1155.00
3	Transportation cost of thor sticks through bullock cart from 5 km distance, loading & unloading.	700.00	Per 100 stick	25.30	96.5	177.10	675.50
4	Rehandling work of thor sticks up to 200 to 500mt distance.	700.00	Per 100 stick	65.50	67.4	458.50	471.80
5	Planting work of Thor sticks in 15 cm distance.	100.00	Rmt.	6.93	6.93	693.00	693.00
6	Treatment of pits					0.00	
a	Through chemicals	400	Per plant	0.49	0.49	196.00	196.00
b	Through mannure	400	Per plant	0.24	0.24	96.00	96.00
7	Planting of plant with rehandling upto 100m,refilling of soil & compaction etc	400	Per plant	6.50	6.50	2600.00	2600.00
8	Cost of Plant including transportation (14+2)=16	400	Per plant	0.00	21.00	0.00	8400.00
9	Making of thanwala,of 50 cm radious	400	Per plant	2.10	2.10	840.00	840.00
10	Weeding & hoeing three times in the year (400x3x3=1404)	3600	Per plant	1.10	1.10	3960.00	3960.00
11	Cost of Mannure including transportation	400	Per Kg	0.50	2.00	200.00	800.00
12	Cost of Chemical including transportation	400	Per plant	0.50	1.00	200.00	400.00
	Total					9879.98	20288.18
13	Gap filling 20%					1975.996	4057.64
	Total					**11855.98**	**24345.82**
	Je Hkkx e 30 % VkLd dh deh d dkj.k vfrfjDr tkMuk					5080.286	5080.29
	;kx					**16936**	**29426.10**
	tkM 3 % ikuh okyk vk;k					508.09	508.09
	;kx					**17444**	**29934.19**
	tkM 2 % dfUVu t lh						598.68
	dy ;kx						30533
	SAY						30533
				ykxr Je en e			**17444**
				ykxr lkexh en e			**13089**
				dy ;kx			**30533**

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5

P.S. - SIROHI, DISTT. - SIROHI (RAJ.)

MODEL ESTIMATE OF HORTICULTURE PLANTATION

MANGO

NRM

Total plant 400 No MREGS

S.N	Details of work	Qty	Unit	Rate		Amount	
1	Excavation of earth work in hard soil for digging of pits, 0.75 x0.75 x0.90 = 0.5062cum	202.50	cum	90.00	90.00	18225.00	18225.00
2	Excavation of earth work for thor fencing pit size 0.15x0.15m	2.25	cum	90.00	90.00	202.50	202.50
	Total					**18427.50**	**18427.50**
	Je Hkkx e 30 % VkLd dh deh d dkj.k vfrfjDr tkMuk					7896.18375	7896.18
	;kx					**26324**	**26323.68**
	tkM 3 % ikuh okyk vk;k					789.71	789.71
	;kx					**27113**	**27113.39**
	tkM 2 % dfUVu t lh						542.27
	dy ;kx						27656
	SAY						24181
				ykxr Je en e			**22233**
				ykxr lkexh en e			**1948**
				dy ;kx			**24181**

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)
MODEL ESTIMATE OF HORTICULTURE PLANTATION

MANGO

Total plant	400	No	C/C	5mx5m
Thor fencing	100	Rmt/Ha		
Thor Danda	700	per ha		MNREGS

S.N	Details of work	Qty	Unit	Rate		Amount	
				Lc	Total	Lc	Total
1	Dag balling work up to 5 to 7 cm depth	100	Rmt.	0.88	0.88	88.00	88.00
2	Supply and cutting of 80 cm thor sticks. 7 Danda /-Rmt	700.00	Per 100 stick	65.50	165.00	458.50	1155.00
3	Transportation cost of thor sticks through bullock cart from 5 km distance, loading & unloading.	700.00	Per 100 stick	25.30	96.5	177.10	675.50
4	Rehandling work of thor sticks up to 200 to 500mt distance.	700.00	Per 100 stick	65.50	67.4	458.50	471.80
5	Planting work of Thor sticks in 15 cm distance.	100.00	Rmt.	6.93	6.93	693.00	693.00
6	Treatment of pits					0.00	
a	Through chemicals	400	Per plant	0.49	0.49	196.00	196.00
b	Through mannure	400	Per plant	0.24	0.24	96.00	96.00
7	Planting of plant with rehandling upto 100m,refilling of soil & compaction etc	400	Per plant	6.50	6.50	2600.00	2600.00
8	Cost of Plant including transportation (14+2)=16	400	Per plant	0.00	16.00	0.00	6400.00
9	Making of thanwala,of 50 cm radious	400	Per plant	2.10	2.10	840.00	840.00
10	Weeding & hoeing three times in the year (156x3x3=1404)	3600	Per plant	1.10	1.10	3960.00	3960.00
11	Cost of Mannure including transportation	400	Per Kg	0.50	2.00	200.00	800.00
12	Cost of Chemical including transportation	400	Per plant	0.50	1.00	200.00	400.00
	Total					9967.10	18375.30
13	Gap filling 20%					1993.42	3675.06
	Total					**11960.52**	**22050.36**
	Je Hkkx e 30 % VkLd dh deh d dkj.k vfrfjDr tkMuk					5125.083	5125.08
	;kx					**17086**	**27175.44**
	tkM 3 % ikuh okyk vk;k					512.57	512.57
	;kx					**17598**	**27688.01**
	tkM 2 % dfUVu tlh						553.76
	dy ;kx						28242
	SAY						28242
				ykxr Je en e			**17598**
				ykxr lkexh en e			**10644**
				dy ;kx			**28242**

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)
MODEL ESTIMATE OF HORTICULTURE PLANTATION
Nimbu Plants NRM

Total plant 277 No MNREGA

S.N	Details of work	Qty	Unit	Rate		Amount	
1	Excavation of earth work in hard soil for digging of pits, 0.75 x0.75 x0.90 = 0.5062cum	140.23	cum	90.00	90.00	12620.8	12620.8
2	Excavation of earth work for thor fencing pit size 0.15x0.15m	2.25	cum	90.00	90.00	202.50	202.50
	Total					**12823.3**	**12823.3**
	Je Hkkx e 30 % VkLd dh deh d dkj.k vfrfjDr tkMuk					5494.78941	5494.79
	;kx					**18318**	**18318.10**
	tkM 3 % ikuh okyk vk;k					549.54	549.54
	;kx					**18868**	**18867.64**
	tkM 2 % dfUVu tlh						377.35
	dy ;kx						19245
	SAY						19300
				ykxr Je en e			**18870**
				ykxr lkexh en e			**430**
				dy ;kx			**19300**

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5

P.S. - SIROHI, DISTT. - SIROHI (RAJ.)

MODEL ESTIMATE OF HORTICULTURE PLANTATION

Nimbu Plantation Production

Total plant	277	No	C/C	6mx6m	
Thor fencing	100	Rmt/Ha		MNREGA	
Thor Danda	700	per ha			

S.N	Details of work	Qty	Unit	Rate		Amount	
				Lc	Total	Lc	Total
1	Dag balling work up to 5 to 7 cm depth	100	Rmt.	0.88	0.88	88.00	88.00
2	Supply and cutting of 80 cm thor sticks. (7 Danda /-Rmt)	700.00	Per 100 stick	65.50	165.00	458.50	1155.00
3	Transportation cost of thor sticks through bullock cart from 5 km distance, loading & unloading.	700.00	Per 100 stick	25.30	96.50	177.10	675.50
4	Rehandling work of thor sticks up to 200 to 500mt distance.	700.00	Per 100 stick	65.50	67.40	458.50	471.80
5	Planting work of Thor sticks in 15 cm distance.	100.00	Rmt.	6.93	6.93	693.00	693.00
6	Treatment of pits					0.00	
a	Through chemicals	277	Per plant	0.49	0.49	135.73	135.73
b	Through mannure	277	Per plant	0.24	0.24	66.48	66.48
7	Planting of plant with rehandling upto 100m,refilling of soil & compaction etc	277	Per plant	6.50	6.50	1800.50	1800.50
8	Cost of Plant including transportation (7+2=9)	277	Per plant	0.00	9.00	0.00	2493.00
9	Making of thanwala,of 50 cm radious	277	Per plant	2.10	2.10	581.70	581.70
10	Weeding & hoeing three times in the year (277x3x3=2493)	2493	Per plant	1.10	1.10	2742.30	2742.30
11	Cost of Mannure including transportation	277	Per Kg	0.50	2.00	138.50	554.00
12	Cost of Chemical including transportation	277	Per plant	0.50	1.00	138.50	277.00
	Total					7478.81	11734.01
13	Gap filling 20%					1495.762	2346.80
	Total					**8974.57**	**14080.81**
	Je Hkkx e 30 % VkLd dh deh d dkj.k vfrfjDr tkMuk					3845.604102	3845.60
	;kx					**12820**	**17926.42**
	tkM 3 % ikuh okyk vk;k					384.61	384.61
	;kx					**13205**	**18311.02**
	tkM 2 % dfUVu tlh						366.22
	dy ;kx						18677
	SAY						18677
				ykxr Je en e			**13205**
				ykxr lkexh en e			**5472**
				dy ;kx			**18677**

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)
ty xg.k {k= e Qly in'ku

uke Qly&xg									
fdLe&jkt-3077@jkt-4037@,p-vkb153									
d-l-	xfrfof/k	idkj	;fuV	nj	ifr gDV;j		in'ku gr ¼0.40g-½		fooj.k
					ek=k	jkf'k	ek=k	jkf'k	
1	Hkfe mipkj	dykjkikbjhQkl 4%	k.g	31/-kg.	25	775	10.0	310.00	
2	cht		k.g	20/-kg.	125	2500	50.0	1000.00	
3	cht mipkj								
(I)	fned fu;=.k	dykjkikbjhQkl 20E.C.	M.L.	330LIT.	600	180	240.0	72.00	
(II)	cht tfur jkxk d fy,	Fkkbjku	gm.	0.20/-gm.	312.5	62.5	125.0	25.00	
(B.)	dYpj								
(I)	,tkVkoDVj	rhu idV i;kIr		12/Each		36		14.40	
(II)	ih-,l-ch-	rhu idV i;kIr		12/Each		36		14.40	
(III)									
3	mojd								
(I)	u=tu		k.g		80		32.0		
(II)	QkLQkjl		k.g		35		14.0		
(III)	Mh-,-ih-		k.g	10/kg.	77	770	30.8	308.00	
(IV)	;fj;k		k.g	6/kg.	146	873.048	58.2	349.22	
4	l{e rRo	ftd lYQV	k.g	50/kg.	25	1250	10.0	500.00	
5	[kjirokj fu;=.k								
(I)		2-4,D (A.I)	M.L.	250/LIT.	500	125	200.0	50.00	
(II)									
6	ik/k lj{k.k								
(I)	fned	dykjkikbjhQkl 35 EC	LIT.	280/LIT.	2.5	700	1.0	280.00	
TOTAL						**7308**		**2923.02**	

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)
ty xg.k {k= e Qly in'ku

uke Qly%&puk									
fdLe%&irki puk@**RSG-888**									
d-l-	xfrfof/k	idkj	;fuV	nj	ifr gDV;j		in'ku gr ¼0.40g-½		fooj.k
					ek=k	jkf'k	ek=k	jkf'k	
1	Hkfe mipkj	D;ukyQkl 1.5%	k.g	28/-kg	25	700.0	10.0	280	
2	cht		k.g	33/kg.	80	2640.0	32.0	1056	
3	cht mipkj								
(I)	tMxyu jkx	6gm. VkbdkMek				10.0		4	
(B.)	dYpj								
(I)	jkbtkfc;e dYpj	rhu idV i;kIr		12/Each		36.0		14.4	
(II)	PM.	rhu idV i;kIr		12/Each		36.0		14.4	
3	mojd								
(I)	u=tu		k.g		20		8.0		
(II)	QkLQkjl		k.g		40		16.0		
(III)	Mh-,-ih-			10/kg.	88	880.0	35.2	352	
(IV)	;fj;k			6/kg.	186	1114.1	74.3	445.632	
4	[kjirokj fu;=.k								
(I)									
(II)									
5	ik/k lj{k.k								
(I)	dVoe	feFkkby ijkfFk;ku 2% p.k	k.g	17/-kg.	25	425.0	10.0	170	
(II)	QyhNnd	eykfFk;ku 5% ;k D;ukyQkl 1.5%	k.g	28/-kg.	25	700.0	10.0	280	
TOTAL						**6541.1**		**2616.43**	

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5

P.S. - SIROHI, DISTT. - SIROHI (RAJ.)

ty xg.k {k= e Qly in'ku

uke Qly%&ljlk
fdLe%&ck;k 902@olU/kjk

d-l-	xfrfof/k	idkj	;fuV	nj	ifr gDV;j		in'ku gr ¼0.40g-½		fooj.k
					ek=k	jkf'k	ek=k	jkf'k	
1	Hkfe mipkj	dykjkikbjhQkl 4% p.k	k.g	31/-kg.	25	775	10.0	310	
		ftlle	k.g		250	500	100.0	200	
2	cht		k.g	38/-kg.	4	152	1.6	61	
3	cht mipkj								
(I)		edkto 2gm./kg. cht		400/-kg.		10		4	
(II)									
(III)									
(B.)	dYpj								
(I)		rhu idV i;kIr PSD.		12/Each		36		14.4	
(II)	PSM.	rhu idV i;kIr PSD.		12/Each		36		14.4	
3	mojd								
(I)	u=tu		k.g		60		24.0		
(II)	QkLQkjl		k.g		30		12.0		
(III)	Mh-,-ih-			10/kg.	66	660	26.4	264	
(IV)	;fj;k			6/kg.	121	728.64	48.6	291.456	
4	l{e rRo	x/kdp.k	gm.	10	40	400	16.0	160	
TOTAL						**3298**		**1319**	

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)
ty xg.k {k= e Qly in'ku

uke Qly&& ckt jk
fdLe&irki ldj ckt jk 1@uotkr

d-l-	xfrfof/k	idkj	;fuV	nj	ifr gDV;j		in'ku gr ¼0.40g-½		fooj.k
					ek=k	jkf'k	ek=k	jkf'k	
1	Hkfe mipkj	nhed dykjkikbjhQkl 4% p.k	k.g	31/-kg.	25	775	10.0	310	
2	cht		k.g	30/-kg.	20	600	8.0	240	
3	cht mipkj								
(I)	rykflrk jkx	fjMkfey m.z. 4gm./kg. cht	gm.		80	120	32.0	48	
(II)	nhed fu;=.k	3m.l. dykjkikbjhQkl / kg cht		31/-kg.		25		10	
(III)		Fkkbjke	gm.	23	3	69	1.2	27.6	
(B.)	dYpj								
(I)		,tkVkoDVj dYpj l mipkfjr				100		40	
(II)	QkLQkjl	rhu idV QkLQkofDVu PSD.		12/Each		36		14.4	
(III)	PSM.	rhu idV QkLQkofDVu PSD.		12/Each		36		14.4	
3	mojd								
(I)	u=tu		k.g		60		24.0		
(II)	QkLQkjl		k.g		30		12.0		
(III)	Mh-,-ih-			10/kg.	66	660	26.4	264	
(IV)	;fj;k			6/kg.	121	728.64	48.6	291.456	
4	l{e rRo	tLr dh deh ij znso4	k.g	50/kg.	25	1250	10.0	500	
5	[kjirokj fu;=.k	500gm. ,Vkthu (A.I.)	LIT.	180/-PKT.	600	108	240.0	43	
		1.5kg. ,ykDykj				100		40	
6	ik/k lj{k.k								
(I)	,fQM	feFkkby fMeVku 25E.C.	LIT.		1	100		40	
TOTAL						**4708**		**1883**	

ty xg.k {k= e Qly in'ku

uke Qly%&mMn
fdLe%&d".kk@Vh -9

d-l-	xfrfof/k	idkj	;fuV	nj	ifr gDV;j		in'ku gr ¼0.40g-½		fooj.k
					ek=k	jkf'k	ek=k	jkf'k	
1	Hkfe mipkj	feFkkby ijkfFk;ku 2% p.k	k.g	17/-kg.	25	425	10.0	170	
2	cht		k.g	47/-kg.	15	705	6.0	282	
3	cht mipkj								
(I)		Fkkbjke	gm.	23	3	69	1.2	27.6	
(B.)	dYpj								
(I)	jkbtkfc;e dYpj	rhu idV i;kIr		12/Each		36		14.4	
(II)	PSM.	rhu idV i;kIr		12/Each		36		14.4	
(III)									
3	mojd								
(I)	u=tu		k.g		10		4.0		
(II)	QkLQkjl		k.g		30		12.0		
(III)	Mh-,-ih-			10/kg.	66	660	26.4	264	
(IV)	;fj;k			6/kg.	141	847.44	56.5	338.976	
4	l{e rRo								
5	[kjirokj fu;=.k	QyDykfju (A.I.)	LIT.	500/-LIT.	1	500		200	
TOTAL						**3278.44**		**1311**	

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5

P.S. - SIROHI, DISTT. - SIROHI (RAJ.)

ty xg.k {k= e Qly in'ku

uke Qly%&ex

fdLe%&i l k c'kk[kh /Rmg-902

d-l-	xfrfof/k	idkj	;fuV	nj	ifr gDV;j		in'ku gr ¼o.40g-½		fooj.k
					ek=k	jkf'k	ek=k	jkf'k	
1	Hkfe mipkj	feFkkby ijkfFk;ku 2% p.k	k.g	17/-kg.	25	425	10.0	170	
2	cht		k.g	41/-kg.	15	615	6.0	246	
3	cht mipkj								
(I)									
(II)									
(III)									
(B.)	dYpj								
(I)	PSM.	rhu idV i;kIr		12/Each		36		14.4	
(II)	jkbtkfc;e	rhu idV i;kIr		12/Each		36		14.4	
(III)									
3	mojd								
(I)	u=tu		kg.		10		4.0		
(II)	QkLQkjl		kg.		30		12.0		
(III)	Mh-,-ih-			10/kg.	66	660	26.4	264	
(IV)	;fj;k			6/kg.	141	847.44	56.5	338.976	
4	l{e rRo								
TOTAL						**2619.44**		**1048**	

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5

P.S. - SIROHI, DISTT. - SIROHI (RAJ.)

ty xg.k {k= e Qly in'ku

uke Qly%&fry

fdLe%&RT.-46/TC-25

d-l-	xfrfof/k	idkj	;fuV	nj	ifr gDV;j		in'ku gr ¼0.40g-½		fooj.k
					ek=k	jkf'k	ek=k	jkf'k	
1	Hkfe mipkj	feFkkby ijkfFk;ku 2% p.k	k.g	17/-kg.	25	425	10.0	170	
		ftlle	k.g		250	500	100.0	200	
2	cht		k.g	137/-kg.	2	274	0.8	110	
3	cht mipkj								
(I)		Fkkbjke	gm.	23	3	69	1.2	27.6	
(II)	thok.k vxHkkjh jkx gr	LMIVk lkbfDyu 10lit. lkkuh e	gm.	40/-idV	2	80	0.8	32	
(III)									
(B.)	dYpj								
(I)	,tkVkoDVj	rhu idV i;kIr		12/Each		36		14.4	
(II)	PSM.	rhu idV i;kIr		12/Each		36		14.4	
(III)									
3	mojd								
(I)	u=tu		k.g		20		8.0		
(II)	QkLQkjl		k.g		25		10.0		
(III)	Mh-,-ih-			10/kg.	55	550	22.0	220	
(IV)	;fj;k			6/kg.	113	678.48	45.2	271.392	
4	l{e rRo	ftlle dk i;kx							
5	[kjirokj fu;=.k	,ykDykj (A.I.)	k.g		1.5	100	0.6	40	
TOTAL						**2748.48**		**1099**	

ty xg.k {k= e Qly in'ku

uke Qly%&Xokj
fdLe%&nxkijk lQn@ilk uocgkj

d-l-	xfrfof/k	idkj	;fuV	nj	ifr gDV;j		in'ku gr ¼0.40g-½		fooj.k
					ek=k	jkf'k	ek=k	jkf'k	
1	Hkfe mipkj								
2	cht		k.g	40/-kg.	15	600	6.0	240	
3	cht mipkj								
(I)	vxekjh jkx	250ppm. ,xhekbflu		60		563		225	
(II)	Fkkbjke		gm.	23	3	69	1.2	27.6	
(III)									
(B.)	dYpj								
(I)	jkbtkfc;e dYpj	rhu idV i;kIr		12/Each		36		14.4	
(II)	PSM.	rhu idV i;kIr		12/Each		36		14.4	
(III)									
3	mojd								
(I)	u=tu		k.g		10		4.0		
(II)	QkLQkjl		k.g		40		16.0		
(III)	Mh-,-ih-			10/kg.	88	880	35.2	352	
(IV)	;fj;k			6/kg.	190	1137.84	75.9	455.136	
4	l{e rRo	ftd lYQV	k.g	50/-kg.	25	1250	10.0	500	
5	[kjirokj fu;=.k	2-4,D- ,LVjlkYV	gm.	250/-kg.	500	125	200.0	50	
TOTAL						**4696.84**		**1879**	

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)
ty xg.k {k= e Qly in'ku

uke Qly&Tokj
fdLe&jkt LFkku pjh& 1,2@CSH&5,6

d-l-	xfrfof/k	idkj	;fuV	nj	ifr gDV;j		in'ku gr ¼0.40g-½		fooj.k
					ek=k	jkf'k	ek=k	jkf'k	
1	Hkfe mipkj	dykjkikbjhQkl 4% p.k	k.g	31/-kg.	25	775	10.0	310	
2	cht	nku gr	k.g	30/-kg.	10	300	4.0	120	
		pkj gr	k.g		25		10.0		
3	cht mipkj								
(I)		Fkkbjke	gm.	23	3	69	1.2	27.6	
(II)		x/kdp.k	gm.	110	4	440	1.6	176	
(III)									
(B.)	dYpj								
(I)	,tkVkoDVj	rhu idV i;kIr		12/Each		36		14.4	
(II)	PSM.	rhu idV i;kIr		12/Each		36		14.4	
(III)									
3	mojd								
(I)	u=tu		k.g		80		32.0		
(II)	QkLQkjl		k.g		45		18.0		
(III)	Mh-,-ih-			10/kg.	99	990	39.6	396	
(IV)	;fj;k			6/kg.	186	1116	74.4	446.4	
4	l{e rRo	ftd lYQV dk i;kx	k.g	50/-kg.	25	1250	10.0	500	
TOTAL						**5012**		**2005**	

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)

MODEL ESTIMATE OF ALOVERA PLANTATION							
District - Sirohi, State - Rajasthan, India							
							W/S
	Name of work:-	Aloevera plantation					
	No of plants:-	150			Spacing		0.6
				Rate		Amount	
S.no.	**Item**	**Quantity**	**Unit**	**Lc**	**Total**	**Lc**	**Total**
	Aloevera plantation						
1	Cost of Aloevera Plant Including Transporting,Loading & unloading.(3.75+0.94+0.297+0.3715 =5.36)	150	Per Plant	0	5.36	0.00	804.00
2	Plantation work of plant 150X0.6=90Rmt	90	Per Rmt	9.97	9.97	897.30	897.30
	Total					897.30	**1701.30**
	Add. 0.03% Contengency charge						51
	Total Amount						1752

Labour Am	897	
Meterial Am	855	
Total Am	**1752**	**Per Ha**

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)

MODEL ESTIMATE OF AGRO FORESTY							
	Prodection						W/S
	Name of work:-	Karonda fencing					
	No of plants:-	150		Spacing			2 m
				Rate		Amount	
S.no	**Item**	**Quantity**	**Unit**	**Lc**	**Total**	**Lc**	**Total**
	Karonda Fencing						
1	E/w Excavation for pit in hard soil in top of bund + 10% extra for different position	150	No	7.48	7.48	1122.00	1122.00
2	Cost of Karonda Plant Including Transporting,Loading & unloading. (6+2=8)	150	Per Plant	0	8.00	0.00	1200.00
3	Plantation work of plant	150	Per Plant	7.4	7.40	1110.00	1110.00
4	**Watering Charges (three year) 3x5=15Nox150=2250 Nox15=33750**						
A	Cost of water including Transporting	33750	4000 Per Litre	0	450.00	0.00	3796.88
B	Watering charges (150X3X5=2250)	2250	Per Plant	1.85	1.85	4162.50	4162.50
5	**Treatment of pit**						
A	Cost of FYM	150	Per Plant	0	2.00	0.00	300.00
B	Cost of Clorophyropas	150	Per Plant	0	0.50	0.00	75.00
C	Cost of Clorophyropas 2ml per plant	0.30	Per Litre	0	350.00	0.00	105.00
D	Labour charge for treatment (0.41+0.20=0.61)	150	Per Plant	0.82	0.82	123.00	123.00
6	Weeding & Hoeing of plant in three year 2x3=6No x150 =900	900	Per Plant	1.2	1.20	1080.00	1080.00
	Total					7597.50	13074.38
7	Gap filling 20%					1519.50	2614.88
	Total					**9117.00**	**15689.25**
	Aloevera plantation						
8	Cost of Aloevera Plant Including Transporting,Loading & unloading.	150	Per Plant	0	5.36	0.00	804.00
9	Plantation work of plant (1 m X 1m)	150	Per Rmt	9.97	9.97	1495.50	1495.50
	Total					1495.50	**2299.50**
	Grand Total					10612.5	**17988.75**
	Say Rs					10613	**17989**
	Add. 0.03% Contengency charge						540
	Total Amount						18528

Labour Am	10613	
Meterial Am	7916	
Total Am	**18528**	**Per Ha**

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5

P.S. - SIROHI, DISTT. - SIROHI (RAJ.)

MODEL ESTIMATE OF ALOVERA PLANTATION

District - Sirohi, State - Rajasthan, India

	Name of work:-	Aloevera plantation					
	No of plants:-	150		Spacing			2.0 m
				Rate		Amount	
S. No.	**Item**	**Quantity**	**Unit**	**Lc**	**Total**	**Lc**	**Total**
	Aloevera plantation						
1	Cost of Aloevera Plant Including Transporting,Loading & unloading.	150	Per Plant	0	4.83	0.00	724.50
2	Plantation work of plant 150X0.6=90Rmt	90	Per Rmt	7.985	8.82	718.65	793.80
	Total					718.65	**1518.30**
	Je Hkkx e 30 % VkLd dh deh d dkj.k vfrfjDr tkMuk					307.942	307.94
	;kx					**1027**	**1826.24**
	tkM 3 % ikuh okyk vk;k					30.80	30.80
	;kx					**1057**	**1857.04**
	tkM 2 % dfUVu tlh						37.14
	dy ;kx						1894
	SAY						1900
	ykxr Je en e						**1060**
	ykxr lkexh en e						**840**
	dy ;kx						**1900**

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5
P.S. - SIROHI, DISTT. - SIROHI (RAJ.)

MODEL ESTIMATE OF AGRO FORESTY							
District - Sirohi, State - Rajasthan, India							
							MNREGS
	Name of work:-	Karonda fencing					
	No of plants:-	150		Spacing			2mx2m
				Rate		Amount	
S.no	**Item**	**Quantity**	**Unit**	**Lc**	**Total**	**Lc**	**Total**
	Karonda Fencing						
1	E/w Excavation for pit in hard soil in top of bund + 10% extra for different position	150	No	6.6	6.6	990.00	990.00
2	Cost of Karonda Plant Including Transporting,Loading & unloading. (6+2=8)	150	Per Plant	0	8.00	0.00	1200.00
3	Plantation work of plant	150	Per Plant	6.5	6.50	975.00	975.00
4	**Watering Charges (three year) 3x5=15Nox150=2250 Nox15=33750**						
A	Cost of water including Transporting	33750	4000 Per Litre	0	450.00	0.00	3796.88
B	Watering charges (150X15=2250)	2250	Per Plant	1.55	1.55	3487.50	3487.50
5	**Treatment of pit**						
A	Cost of FYM	150	Per Plant	0	1.00	0.00	150.00
B	Cost of Clorophyropas	150	Per Plant	0	0.50	0.00	75.00
C	Cost of Clorophyropas 2ml per plant	0.30	Per Litre	0	350.00	0.00	105.00
D	Labour charge for treatment (0.49+0.24=0.73)	150	Per Plant	0.73	0.73	109.50	109.50
6	Weeding & Hoeing of plant in three year 2x3=6No x150 =900	900	Per Plant	1.1	1.10	990.00	990.00
	Total					6552.00	11878.88
7	Gap filling 20%					1310.40	2375.78
	Total					**7862.40**	**14254.65**
	Aloevera plantation						
8	Cost of Aloevera Plant Including Transporting,Loading & unloading.	150	Per Plant	0	4.83	0.00	724.50
9	Plantation work of plant 1 mX1 m spacing	150	Per Rmt	7.985	8.82	1197.75	1323.00
	Total					1197.75	**2047.50**
	Grand Total					9060.15	**16302.15**

Je Hkkx e 30 % VkLd dh deh d dkj.k vfrfjDr tkMuk		3882.274	3882.27
;kx		**12942**	**20184.42**
tkM 3 % ikuh okyk vk;k		388.27	388.27
;kx		**13331**	**20572.70**
tkM 2 % dfUVu tlh			411.45
dy ;kx			20984
SAY			20980
	ykxr Je en e		**13331**
	ykxr lkexh en e		**7649**
	dy ;kx		**20980**

SIROHI (IWMP - III) W/S - 6/1,2,3,4,5

P.S. - SIROHI, DISTT. - SIROHI (RAJ.)

MODEL ESTIMATE OF HORTICULTURE PLANTATION

MANGO

Total plant	400	No		W/S
Thor fencing	100	Rmt/Ha	C/C	5mx5m
Thor Danda	700	per ha		

S.N	Details of work	Qty	Unit	Rate		Amount	
				Lc	Total	Lc	Total
1	Excavation of earth work in hard soil for digging of pits, 0.75 x0.75 x0.90 = 0.5062cum	202.50	Cum	92	92.00	18630.00	18630.00
2	Excavation of earth work for thor fencing pit size 0.15x0.15m	2.25	Cum	92	92.00	207.00	207.00
3	Dag balling work up to 5 to 7 cm depth	100	Rmt.	1.00	1.00	100.00	100.00
4	Supply and cutting of 80 cm thor sticks. 7 Danda /-Rmt	700.00	Per 100 stick	74.30	174.00	520.10	1218.00
5	Transportation cost of thor sticks through bullock cart from 5 km distance, loading & unloading.	700.00	Per 100 stick	100.00	100	700.00	700.00
6	Rehandling work of thor sticks up to 200 to 500mt distance.	700.00	Per 100 stick	76.50	76.5	535.50	535.50
7	Planting work of Thor sticks in 15 cm distance.	100.00	Rmt.	6.93	6.93	693.00	693.00
8	Treatment of pits					0.00	
a	Through chemicals	400	Per plant	0.55	0.55	220.00	220.00
b	Through mannure	400	Per plant	0.27	0.27	108.00	108.00
9	Planting of plant with rehandling upto 100m,refilling of soil & compaction etc	400	Per plant	7.40	7.40	2960.00	2960.00
10	Cost of Plant including transportation	400	Per plant	0.00	18.00	0.00	7200.00
11	Making of thanwala,of 50 cm radious	400	Per plant	2.40	2.40	960.00	960.00
12	Weeding & hoeing three times in the year (400x3x3=3600)	3600	Per plant	1.20	1.20	4320.00	4320.00
13	Cost of Mannure including transportation	400	Per Kg	0.50	2.00	200.00	800.00
14	Cost of Chemical including transportation	400	Per plant	0.50	1.00	200.00	400.00
	Total					30353.60	39051.50
15	Gap filling 20%					6070.72	7810.30
	Total					**36424.32**	**46861.80**
	Say Rs					**36424**	**46862**
	Contengency 3%						1406
	Grand total						**48268**

Labour Am	**36424**
Meterial Am	**11843**
Total Am	**48268**