

DRAFT SCHEDULE OF QUANTITY					
Nature of Work:- Providing consultancy services for preparation of Detailed Project Report for Providing Lift Irrigation facilities to group of panchayat Sohar, Rawara, Ghanalla, Jamulla, Tekerer and Neri in Tehsil Sandhole Distt. Mandi HP under PMKSY		Estimated Cost :- Rs.		900000	/- Only
		Earnest Money :- Rs.		18000	/- Only
		Time		30 days	
Sl. No.	Description of work	No.or Qty.	Rate	Unit	AMOUNT
1	Preparation of detailed project report (DPR) for Providing Lift Irrigation facilities to group of panchayat Sohar, Rawara, Ghanalla, Jamulla, Tekerer and Neri in Tehsil Sandhole Distt. Mandi (HP) based on detailed survey, Preparation Shajra Plan and revenue record, Contour Plan, marking of proposal on plan, preparation of L-section of Rising Main and distribution system, detailed hydraulic design, design , design calculations, structural design, cost estimations complete for an Area of about 800 Hect. and approval of Detail project report from different agencies etc. including prepration of working estimate, tender document, agreement, NIT, Schedule of quantity etc. required for tenders and approval thereof from the competent authority & investigation including the detailed study of all related parameters given in the following check list.	800.00		Per hect	
2	Check List:-The Report shall be presented covering the following parameters.				
	i) Check list as per CWC (MOWR) PMKSY latest guideline minor irrigation requirement.				
	ii) Introduction				
	iii)Salient features				
	iv)Physical features				
	v) General Investigations (Social, Climate, Geological, Population & other details.				
	vi) Hydrological studies & water resources. This should include measurement of Discharge of source for a period of site. One year by installing a gauge of suitable site.				
	vii) Design features.				
	viii) Crop water requirement & meteorological (Irrigation planning).				
	ix)Design of all components of the project i.e R/Main, Pumping machinery and distribution system etc..				
	x) Construction Material & Construction Programme.				
	xi) Enviornmental & ecological studies:- The rates are exluding of Enginrment Impact Assessment (EIA) or Environment and ecological studies and clearance from concerned departments.				
	xii) Pre & post irrigation crop budget.				
	xiii) Financial resources				
	xiv) Estimates.				
	xv) Revenues				
	xvi) Benefit cost ratio and financial return				
3	Following data needs to be collected from various department.				

	a) Meteorological data in catchment area of source and command area of project from meteorological department				
	b) Soil surveys pre and post project cropping pattern/budget from state agriculture department				
	c) Ground water potential in command and area from ground water organization of GWO/CGWB.				
	d) Soil investigation survey has to be got conducted for ascertaining Bearing Capacity of soil for construction of various civil structures.				
4	Detailed Project Report (DPR) should contains the followings				
	Volume-I				
	i) History				
	ii) Salient features				
	iii) Physical features				
	iv) General Investigations (Social, Climate, Geological, Population & other details.				
	v) Hydrological studies & water resources. The old discharge data of source available with the concerned department shall be used for designing the scheme instead of setting new discharge site .				
	vi) Pre & post irrigation crop budget.				
	vii) Crop water requirement & meteorological (Irrigation planning).				
	viii) Design features.				
	ix) Design of main components of the project. Keeping in view all the external forces including wind, land slide, earth quake etc.				
	x) Construction Material & Construction Programme.				
	xi) Environment & ecological studies and clearance from concerned department				
	xii) Benefit cost ratio and financial return				
	xiii) Revenue record				
	XiV) The proposal should include complete automation of the project with provision of all				
5	Drawings. :-				
	i) Key plan on 100 m grid and contour plan (C.I =2.0m) on the scale 1:15000 (Detailed Topographical survey & contour plan (C.I = 1.0m) on 30mx30m grid at the scale 1:1000 Surveyed and prepared with the help of total station & shall be presented in auto CAD as Soft copy along with prints.				
	ii). L-section & X- section of R/main, G/main, distribution lines, Minor and Sub minor lines and Pucca field Channel & Kaccha Field channel etc. complete.				
	iii). Design & Drawing of all relates works such as pump houses, collection tanks, outlets, protection works etc..				
	iv). Marking of Alignment of R/mains, Gravity mains and distribution system, pump houses, collection tanks, outlets, protection works etc. on Shajra plan.				

	v). Any item required in addition to above for preparation of Detailed Project Report (DPR).				
6	Volume-2				
	i)General Abstract of Cost.				
	ii)Sub head wise abstract of cost & detail of measurements.				
	iii) Basic rates of material & labour				
	iv) carriage of material by mechanical transport & manual				
	v) Analysis of rates				
				Total	

Executive Engineer
Irrigation & PH Division
Dharampur at Bharari