

Government of Himachal Pradesh

**Himachal Pradesh
Infrastructure
Development Board
(HPIDB)**

Study on mapping the existing skill levels of the employable
youth and the skill gap in Himachal Pradesh



ICRA Management Consulting Services Limited

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IMPLEMENTATION PLAN

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1. Executive Summary

- i. Himachal Pradesh Infrastructure Development Board (HPIDB) mandated ICRA Management Consulting Services Limited (IMaCS) to assist it in mapping the existing skill levels of the employable youth and the skill gap to the State's likely requirement till 2015, factoring in its economic potential. This report projects the human resources requirements of Himachal Pradesh high-growth industries till 2015, maps the human resources skills available currently in the State to such requirements, identifies skill gaps, and suggests measures to bridge the same.
- ii. The backdrop to the study is the robust economic growth experienced by Himachal Pradesh over the past few years, driven mainly by the State's manufacturing and services sectors. The economic outlook for the State remains buoyant, with the growth impetus expected to be delivered by a broad base of resident industries (manufacturing and service organisations) over the next few years. Industry in Himachal Pradesh has rightly identified availability of skilled human resources as an enabling factor for the realisation of the State's growth plans, and foresees a widening gap between supply and demand in this regard.
- iii. In this exercise, we adopted the following approach:
 - Diagnostic analysis of the state
 - Identification of industries in the state offering high growth and employment
 - Map the skill requirements for the industries
 - Map the existing education infrastructure in Himachal Pradesh and the expected human resources availability in 2015.
 - Identify skill gaps
 - Suggest measures to be undertaken by different stakeholders (Government, Industries and Educational Institutions) to address these skill gaps and draft human resources development plan for the state and district.
- iv. The study is proposed to be undertaken in a phased manner with 12 districts spanned over three different phases covering 4 districts each. This report discusses the findings and recommendations for the first phase I, phase II and Phase III covering Shimla, Una, Sirmaur, Solan, Hamirpur, Bilaspur, Chamba, Kangra, Lahaul & Spiti, Kinnaur, Kullu and Mandi. We conducted the study by interacting with the principal stakeholders in Himachal Pradesh and by

building on a secondary research on skill development programmes undertaken in India and select foreign nations. The principal stakeholders we interacted with include:

- Industry: manufacturing and services sector organisations across industries which are on the ground in Himachal Pradesh today, and are expected to drive the State’s future economic growth. Educational Institutions: universities, colleges and polytechnics—government/government aided or self-financing
 - State Government Officials
- v. We envisage that by 2015, the opportunity landscape in Himachal Pradesh will have 3.5 to 4 lakh new (incremental) jobs to offer, considering the likely improvements in economic output and labour productivity. The employment opportunities envisaged are likely to emanate mainly from the construction, pharma, hospitality, IT & ITES¹, light engineering, mineral based industries, textiles, hydro-power and other resident industries. The break-up for such job opportunities in terms of skill level is seen as: about 2.4 lakh skilled and highly skilled professionals², and 1.2 to 1.5 lakh unskilled³ human resources.
- vi. The new employment opportunities would not only call for enhanced functional, and to an extent sector-specific, competencies⁴ across levels, but also several “soft” skills, such as communication skills, presentation skills, stress management and team building skills.
- vii. The state has a high literacy rate of 77% compared to national average of 65%. To support human resource requirements, the state has a network of about 7 engineering colleges, 10 polytechnics, 97 ITI / ITC, 249 SCVT centres, 8 pharmacy colleges offering about 16000 seats to local population. This is complemented by a network of 72 arts and science colleges, 5 MBA colleges, 4 MCA colleges and 4 universities offering educational facilities across various disciplines. Together, these institutions have the potential to turn out around 320,000 skilled human resources by 2015. However, discussions with key stakeholders revealed that the turnout of engineering / diploma students remain low at 65% and vocational training at 60%. Of the total engineering graduates and diploma holders that these institutions turn out every

¹ Information Technology and Information Technology Enabled Services

² Human resources possessing skills developed through a formal education system. Includes arts and science graduates; engineers, diploma holders and ITI trained professionals; and management and finance professionals.

³ Human resources with no formal training

⁴ For instance, knowledge of the latest manufacturing practices and quality control techniques in the light engineering sectors, project management and cost management techniques in the construction sector, and basic/advanced programming skills and project management skills in the IT sector.

year, significant proportion of students remain unemployable even after completing the course. The primary reasons cited for the “unemployability” of students graduating from the State’s formal education system are:

- viii. Disconnect between academic curricula and industry requirements, resulting in deficiencies in sector specific functional skills, besides lack of practical training, market orientation, and “soft” skills of students graduating from the State’s educational institutions.
- ix. Shortfall in appropriately trained faculty; this is a concern assuming increasing proportions. Shortfall in trained faculty results in inappropriately trained students, thereby increasing ‘unemployability’.
- x. Our suggestions for narrowing human resources-availability gaps in Himachal Pradesh over the period till 2015, accordingly address the following questions:
 - What is the additional physical infrastructure—that is, the increase in capacity of higher educational institutions—required for meeting the enhanced skilled-human resources requirements of Himachal Pradesh industry?
 - What can be done by the various stakeholders, viz. State Government, industry and educational institutions, to improve the employability of the State’s unskilled labour?
 - What can be done by the various stakeholders to bridge the current and expected gaps in the skills of the State’s “skilled” human resources?
- xi. While making our recommendations, we have, wherever possible, indicated a timeframe for their implementation.
- xii. Our recommendations are structured as human resources development plan which encompasses two broad areas –
 - State level human resources development and
 - District human resources development plan

2. Summary of Skill Development Initiatives – State and District Level

#	Focus	Principal Initiatives/Focus	Sub-initiatives
1	State Level Skill Development	1. 1 Capacity Building through additional infrastructure	<ul style="list-style-type: none"> • Capacity Building of ITI's • Capacity Building of Polytechnics • Capacity Building of Engineering
		1.2 Skill building initiatives to improve the employability of employable youths	<ul style="list-style-type: none"> • Large scale skill development initiatives • Employability focussed skill development initiative • Long term skill development initiative through cluster development
		1.3 Funding Mechanism	<ul style="list-style-type: none"> • Funding requirement analysis • Identification of alternate sources of funding
2	District Level Skill Development initiatives	2.1 Bilaspur	<p>Transportation</p> <ul style="list-style-type: none"> • Opening up of a drivers training institute in Bilaspur • Increase the intake for motor vehicle mechanic in ITI Bilaspur • Introduction of Motor driving and Heavy Equipment Operator Training in ITI Bilaspur • Development of auto spare parts retailing in Bilaspur

#	Focus	Principal Initiatives/Focus	Sub-initiatives
			<p>Hydro power</p> <ul style="list-style-type: none"> • Introduction of courses under SCVT particularly aimed at hydro power technicians / operators • Diploma Engineering in Power to be started in Government polytechnic • Supervisor / Operators Training for Hydro and Power Systems can be started under direct certification by NTPI / PMI who offer such training to fresh diploma engineers <p>Tourism & Hospitality</p> <ul style="list-style-type: none"> • IATA / UFTAA certification in ticketing, tour planning and pricing for school drop-outs after class X • Increase the intake of students at Regional Water Sports Centre in Kangra district to satisfy the demand for professionals / instructors for adventure sports within the state as same infrastructure facility should be put to better use <p>Agro-based</p> <ul style="list-style-type: none"> • Short term training courses to be organised in floriculture and horticulture activities being carried out in green-houses by District Directorate of Horticulture in collaboration with Y S Parmar University, Solan. • Weekly awareness and sensitisation camps in villages through extension officers

#	Focus	Principal Initiatives/Focus	Sub-initiatives
			<p>of Horticulture department.</p> <p>Dairy farming</p> <ul style="list-style-type: none"> Promotion of Dairy farming
		2.2 Chamba	<p>Hydro Power</p> <ul style="list-style-type: none"> Collaboration of NHPC with ITI and Govt Polytechnic to train local population in semi-skilled jobs such as operation of earth moving equipments and heavy machinery. Chamera-II project has initiated similar training program with ITI Chamba but the scope and the involvement of the local population needs to be increased. New courses to be introduced at ITI Chamba in the area of hydel power generation such as blasting, concreting and earth moving equipment. <p>IT/ITeS</p> <ul style="list-style-type: none"> Introduction of computer science at Govt Polytechnic College, Chamba Introduction of basic computer literacy, communication and personality improvement courses at Govt Degree College, Chamba so that students can be imparted skills required in BPO companies.

#	Focus	Principal Initiatives/Focus	Sub-initiatives
			<p>Tourism</p> <ul style="list-style-type: none"> • Set up a marketing agency to promote handicraft of Chamba (products such as Chamba Chappals, handkerchiefs) and metal and wood craft • Set up an extension branch of the Institute of Hotel Management, Kufri to impart professional courses in tourism. • Set up a Regional Mountaineering Centre similar to Kangra to impart training regarding adventure sports. Chamba district offers a lot of avenues for trekking, camping, rock climbing but all round development of these activities requires professional assistance. <p>Floriculture</p> <ul style="list-style-type: none"> • Promotion of oil extraction units <p>Dairy farming</p> <ul style="list-style-type: none"> • Promotion of dairy farming
		2.3 Hamirpur	<p>Dairy & Poultry</p> <ul style="list-style-type: none"> • Promotion of dairy and poultry farming

#	Focus	Principal Initiatives/Focus	Sub-initiatives
			<p>Tourism</p> <ul style="list-style-type: none"> • Promotion tourist locations like the historical fort of Sujapur Tihra under event – based marketing around annual festival of Holi <p>Agro</p> <ul style="list-style-type: none"> • Setting up of Maize processing plants for production of starch and/or bio-fuels • Promotion of fruit processing units and pinestry for foam • Starting of vocational courses in district ITI to develop technical skills in the above areas • Promotion of polyhouses and formal training on harvest and post harvest practices
		2.4 Kangra	<p>Tourism</p> <ul style="list-style-type: none"> • Promotion of tourism opportunities in adventure sports apart from leisure tourism and religious tourism • The department should intensify restoration and maintenance activities at Kangra Fort to promote weekend tourism • HPTDC to aggressively promote Maharana Pratap Sagar reservoir as a destination for water sports such as boating, kayaking, water skiing, bid watching and fishing. For the purpose, HPTDC should organise competitions by

#	Focus	Principal Initiatives/Focus	Sub-initiatives
			<p>inviting professional athletes from across the world similar to the World Paragliding competition which is organized at Dharamsala.</p> <ul style="list-style-type: none"> • Increase intake at Regional Mountaineering Centre, Dharamsala to induct more professional trekkers, guides in the tourism sector in order to provide a more enriching experience to the customers. HPTDC to also make it mandatory for all guides to be professionally trained at the Regional Mountaineering Centre. <p>Dairy farming</p> <ul style="list-style-type: none"> • Animal Husbandry department should conduct ground level training programs to educate the local population about dairy farming and provide technical support in the form of information about better feed, better cattle management. Further, the department should also encourage formation of local milk co-operatives. • Training local people in milk co-operatives and collection process. • Encourage entrepreneurs to set-up central dairy plant <p>IT/ITeS</p> <ul style="list-style-type: none"> • IT/ITES industry to be promoted in the district by setting up IT park. The district has potential to attract BPO sector as well as medium sized IT companies involved in software engineering. The district can also source skilled manpower from Punjab due to its proximity with the state

#	Focus	Principal Initiatives/Focus	Sub-initiatives
		2.5. Shimla	<p>IT/ITeS</p> <ul style="list-style-type: none"> • Compulsory inclusion of computer education in government schools for XI and XII students with a basic functioning knowledge of operating systems • Computerisation of government colleges and introduction of computer training in specific BPO processes for different courses <ul style="list-style-type: none"> – <i>Bachelor of Commerce</i>: Revenue Accounting and MIS, Insurance Claims Processing, Tele-marketing for financial products – <i>Bachelor of Science</i>: Medical Transcription – <i>Bachelor of Arts</i>: Customer Support for credit card, telecom services, consumer durable – <i>Bachelor of visual communications</i> – <i>Bachelor of Science: Animation, Media etc.,</i> – <i>Bachelor of Arts: Journalism</i> • To invest in computer labs and voice training labs in the colleges. <p>Tourism and Hospitality</p>

#	Focus	Principal Initiatives/Focus	Sub-initiatives
			<ul style="list-style-type: none"> • IATA / UFTAA certification in ticketing, tour planning and pricing for school drop-outs after class X • Food craft training in cooking, baking and bartending after class XII to be started under SCVT certification in collaboration with leading hotel chain / private players • Craftsmen Food Production and Steward, one of the recognised trades under NCVT can be started in ITI <p>Agro</p> <ul style="list-style-type: none"> • Preservation of Fruits and Vegetables, Refrigeration and air-conditioning mechanic with focus on HVAC technology can be initiated in ITI • Propose setting-up of Centre for Retail Management of agro products <p>Light Engineering</p> <ul style="list-style-type: none"> • Commissioning of ITI in Shoghi itself with focus on engineering trades such as Electrician, Wireman, Sheet Metal Worker, Welder, Plumber • Increase the intake for Machinist, Refrigeration and Air-conditioning mechanic, electronics mechanic in other ITI in the district

#	Focus	Principal Initiatives/Focus	Sub-initiatives
		2.6. Sirmaur	<p>Textiles</p> <ul style="list-style-type: none"> • Maintenance courses for spinning and weaving machines as well as captive power plants to be introduced for Fitters in ITI • Fashion Technology trade to be started under NCVT in ITI in the district • Weaving courses with specific focus on weaving preparatory activities to be started under SCVT • Textile Chemistry courses to be started in Polytechnic / Private Engineering Colleges, quality techniques and time and motion studies to be included in engineering courses <p>Tourism and Hospitality</p> <ul style="list-style-type: none"> • IATA / UFTAA certification in ticketing, tour planning and pricing for school drop-outs after class X by Department of Tourism • Craftsmen Food Production and Steward, one of the recognised trades under NCVT can be started in ITI • Food Technology to be introduced in few ITI in the district <p>Light Engineering</p> <ul style="list-style-type: none"> • Commissioning new engineering trades under NCVT such as Mechanic Electrician, Wireman, Sheet Metal Worker, Refrigeration and Air-conditioning Mechanic, Auto Electrical and Electronics

#	Focus	Principal Initiatives/Focus	Sub-initiatives
			<ul style="list-style-type: none"> • Increase the intake for existing courses such as fitter, turner, Plastic Processing Operator in the existing ITI • Certain course level changes to be implemented such as training on CNC machines, Arc and Submerged welding for Welders, CAD/CAM for electronics and mechanical trades • Quality techniques to be made an integral part of the engineering degree / diploma courses across all specialization. <p>Pharmaceutical and Chemical Industry</p> <ul style="list-style-type: none"> • Maintenance and Instrument Mechanic for Chemical Plant, Laboratory Assistant, Refrigeration and Air-conditioning Mechanic for pharma and chemical companies • Diploma in Pharmacy to be started at Government Polytechnic, Nahan • Increase the intake for plastic processing operators which is currently offered in the district
		2.7.Solan	<p>Tourism</p> <ul style="list-style-type: none"> • Solan can be developed as entertainment hub aimed at transit tourist travelling by road from Delhi and Chandigarh to Shimla. <p>IT and Media</p> <ul style="list-style-type: none"> • Introduction of following courses as part of regular courses:

#	Focus	Principal Initiatives/Focus	Sub-initiatives
			<ul style="list-style-type: none"> - <i>Bachelor of Commerce</i>: Revenue Accounting, Insurance Claims Processing, Tele-marketing for financial products - <i>Bachelor of Science</i>: Medical Transcription - <i>Bachelor of Arts</i>: Customer Support for credit card, telecom services, consumer durable - <i>Bachelor of visual communications</i> - <i>Bachelor of Science: Animation, Media etc.,</i> - <i>Bachelor of Arts: Journalism</i> - • Directorate of Education / Department of IT to invest in computer labs and voice training labs in the colleges. <p>Pharmaceuticals</p> <ul style="list-style-type: none"> • Propose setting-up of Centre for Excellence (CoE) in the area of biotechnology and bioinformatics in Solan <p>Light Engineering</p> <ul style="list-style-type: none"> • Setting-up of Skill Development Centre for providing advisory support to local light engineering companies and train local students in best practices in light engineering industry. • Invest in upgradation of ITI Solan and Govt Polytechnic College Solan to

#	Focus	Principal Initiatives/Focus	Sub-initiatives
			modern machinery such as Modern welding techniques, CNC machines.
		2.8. Una	<p>Light Engineering</p> <ul style="list-style-type: none"> • New trades to be introduced in ITI Una for Motor mechanic, Automobile Engineering, Electronics Mechanic. • Introduce automobile engineering course at Govt. Polytechnic College, • Una should be promoted to as automobile education hub of the state by encouraging automobile as well as ancillary companies to undertake Research and Development activities apart from manufacturing. • HPIDB to promote setting up of hardware park to attract companies in manufacturing of electronics and consumer goods such as Printed Circuit Boards, Telecom equipments, Monitors, Cathode Ray tubes, Television, Refrigerator, Washing Machines, CD and DVD players. <p>Dairy farming</p> <ul style="list-style-type: none"> • Promotion of dairy farming <p>Tourism</p> <p>The district has few attractions for religious travellers such as Dera Baba Bharbhag Singh and Chintpurni Temple. These places are frequented by thousands of devotees every year. However lack of hospitality infrastructure deters many people from</p>

#	Focus	Principal Initiatives/Focus	Sub-initiatives
			visiting these places. Further, event based marketing during festival season can help improve the tourist inflow to Una.
		2.9. Lahaul & Spiti	<p>Agriculture</p> <ul style="list-style-type: none"> • Promotion of usage of glasshouses and polyhouses <p>Tourism</p> <ul style="list-style-type: none"> • The district presents tremendous opportunities for promoting Buddhist tourism as lot of monasteries and Gompas are present in Lahaul and Spiti valleys. • Keylong in Lahaul valley lies on the Manali-Leh route and should be promoted as an important way-side tourism with avenues for adventure and religious tourism.
		2.10. Kinnaur	<p>Hydro Power</p> <ul style="list-style-type: none"> • Training of local manpower in short-term courses such as blasting, drilling, heavy earth moving machinery, concreting <p>Tourism</p> <ul style="list-style-type: none"> • The district offers tremendous scope for adventure sports such as camping, trekking, mountaineering and rock climbing. Skiing as an avenue can also be explored for development. The district needs to be promoted aggressively by

#	Focus	Principal Initiatives/Focus	Sub-initiatives
			<p>Dept. of Tourism, Himachal Pradesh as presently there is not enough information or brand recall of the various destinations amongst tourists, domestic as well as foreign.</p> <p>Handlooms</p> <ul style="list-style-type: none"> • Promotion of traditional handlooms and Kinnauri caps
		2.11. Kullu	<p>Tourism</p> <ul style="list-style-type: none"> • Promotion of tourism cluster in Kullu • Promotion of courses in hang gliding and para gliding <p>Agro</p> <ul style="list-style-type: none"> • Promotion of setting-up of industries in the field of Ayurvedic products <p>Handlooms</p> <ul style="list-style-type: none"> • Propose innovative marketing programs to promote handloom products <p>Light Engineering</p> <ul style="list-style-type: none"> • Promotion of carton manufacturing units
		2.12. Mandi	<p>Agro Processing</p>

#	Focus	Principal Initiatives/Focus	Sub-initiatives
			<p>The district has substantial agro production but very few companies are presently functioning in agro processing. Opportunities are present in tea processing and packing, spices production and packaging, pickles and starch production. Manufacturing of Apple Cider can be also be promoted.</p> <p>Tourism</p> <p>Mandi district has a few scenic places such as Nerchowk and other places in Beas valley which can be promoted for Health tourism by setting of Spas, Aromatherapy and Naturotherapy units. Further, the cultivation of herbs and Ayurvedic plants should be encouraged in the district to build up the brand image for Health Tourism.</p>

The implementation of above recommendations would require interaction various departments. To ensure focus and ease of implementation, we have grouped the above recommendation into department wise recommendations.

3. Summary of Skill Development Initiatives – Department Level

3.1.1. Department of Technical Education - Industrial Education Wing

#	Principal	Sub-initiatives	Implementation Agency	Reference

	Initiatives/Focus		Lead Agency	Supporting Agency	
1	Capacity Building of ITI's	<ul style="list-style-type: none"> Incremental increase in capacity of ITI to 4000 primarily through introduction of shift system in Shimla, Mandi, Kangra and Hamirpur. 	Industrial Education Wing		Capacity building initiative
		<ul style="list-style-type: none"> Increase in intake for motor vehicle mechanic in ITI Bilaspur 	Industrial Education Wing		District Development Report
		<ul style="list-style-type: none"> Introduction of Motor driving and Heavy Equipment Operator Training in ITI Bilaspur 	Industrial Education Wing		
		<ul style="list-style-type: none"> Introduction of courses under SCVT particularly aimed at hydro power technicians / operators 	Industrial Education Wing	NTPI/ PMI	
		<ul style="list-style-type: none"> New courses to be introduced at ITI Chamba in the area of hydel power generation such as blasting, concreting and earth moving equipment 	Industrial Education Wing	NTPI	
		<ul style="list-style-type: none"> Introduction of courses in ITI Hamirpur in the area of fruit processing and pinestry 	Industrial Education Wing	Department of Agriculture	
		<ul style="list-style-type: none"> Introduction of craftsmen food production and steward under the NCVT system or modular employable skills in select ITI's 	Industrial Education Wing	Leading Hotel Chain	

#	Principal Initiatives/Focus	Sub-initiatives	Implementation Agency		Reference
			Lead Agency	Supporting Agency	
		<ul style="list-style-type: none"> Food craft training in cooking, baking and bartending after class XII to be started under SCVT certification in collaboration with leading hotel chain in ITI Shimla 	Industrial Education Wing	Leading Hotel Chain	
		<ul style="list-style-type: none"> Preservation of fruits and vegetables, refrigeration and air-conditioning mechanic with focus on HVAC technology in ITI's Shimla 	Industrial Education Wing		
		<ul style="list-style-type: none"> Commissioning of ITI in Shoghi itself with focus on engineering trades such as Electrician, Wireman, Sheet Metal Worker, Welder, Plumber Increase the intake for Machinist, Refrigeration and Air-conditioning mechanic, electronics mechanic in other ITI in the district 	Industrial Education Wing		
		<ul style="list-style-type: none"> Maintenance courses for spinning and weaving machines as well as captive power plants to be introduced for Fitters in ITI Sirmaur Fashion Technology trade to be started under NCVT in ITI Sirmaur Weaving courses with specific focus on weaving preparatory activities to be started under SCVT in ITI Sirmaur 	Industrial Education Wing	Leading Textile company	

#	Principal Initiatives/Focus	Sub-initiatives	Implementation Agency		Reference
			Lead Agency	Supporting Agency	
		<ul style="list-style-type: none"> Food technology to be started in few ITI's in Sirmaur district 	Industrial Education Wing	In association with CFTRI Mysore	
		<ul style="list-style-type: none"> Commissioning of new engineering trades under NCVT such as Mechanic, Electrician, Wireman, Sheet Metal Worker, Refrigeration and Air-conditioning Mechanic, Auto Electrical and Electronics in ITI Sirmaur Increase the intake for existing courses such as fitter, turner, Plastic Processing Operator in the existing ITI Certain course level changes to be implemented such as training on CNC machines, Arc and Submerged welding for Welders, CAD/CAM for electronics and mechanical trades 	Industrial Education Wing		
		<ul style="list-style-type: none"> Upgradation of ITI Solan with modern equipment such as modern welding and CNC machines 	Industrial Education Wing		
		<ul style="list-style-type: none"> New trades to be introduced in ITI Una for motor mechanic, automobile engineering and electronics. 	Industrial Education Wing		
		<ul style="list-style-type: none"> Training of local manpower in short-term courses such as blasting, 	Industrial Education		

#	Principal Initiatives/Focus	Sub-initiatives	Implementation Agency		Reference
			Lead Agency	Supporting Agency	
		drilling, heavy earth moving machinery and concreting	Wing		
2	Creating Market Awareness	<ul style="list-style-type: none"> Short term exchange programme (duration of 4 to 6 weeks) with leading educational institutions and companies in India 			Employability focussed skill development initiative
		<ul style="list-style-type: none"> Participation in World Skills Competition which focuses on vocational training and facilitates learning and benchmarking of vocational education. Over 40 trades are currently available in the competition. This initiative would be co-ordinated through CII. 			Employability focussed skill development initiative
3	Skill Assessment and Monitoring	<ul style="list-style-type: none"> Identification of assessment agency Identification of students Testing Administration Review and Monitoring 	Industrial Education Wing	Industry Department	Employability focussed skill development initiative
4	Improving course curriculum	<ul style="list-style-type: none"> Propose introduction of following specialisation as part of regular courses in tourism, agri-procurement, IT/ITeS, Tourism, Light Engineering, Construction and Textiles 	Industrial Education Wing		Employability focussed skill development

#	Principal Initiatives/Focus	Sub-initiatives	Implementation Agency		Reference
			Lead Agency	Supporting Agency	
					initiative

3.1.2. Department of Technical Education - Technical Education Wing

#	Principal Initiatives/Focus	Sub-initiatives	Implementation Agency		Reference
			Lead Agency	Supporting Agency	
1	Capacity Building of Polytechnics and Engineering	<ul style="list-style-type: none"> Incremental increase in capacity of polytechnics to around 3000 in select polytechnics in Shimla, Solan, Sirmaur, Mandi, Chamba and Kangra (primarily through shift system) Incremental increase in capacity of engineering colleges to 1500 primarily through introduction of shift system 	Technical Education Wing		Capacity Building Initiatives
		<ul style="list-style-type: none"> Opening up of drivers training institute in Bilaspur 	Technical Education Wing	Department of Transport and Leading OEM's	District Development Plan

#	Principal Initiatives/Focus	Sub-initiatives	Implementation Agency		Reference
			Lead Agency	Supporting Agency	
2	Introduction of new courses	<ul style="list-style-type: none"> Diploma in Power to be started in Government Polytechnic in Bilaspur 	Technical Education Wing	NTPI	District Development Plan
		<ul style="list-style-type: none"> Supervisor / Operators Training for Hydro and Power Systems can be started under direct certification by NTPI / PMI who offer such training to fresh diploma engineers 	Technical Education Wing	NTPI	
		<ul style="list-style-type: none"> Introduction of computer science at Govt Polytechnic College, Chamba 	Technical Education Wing		District Development Plan
		<ul style="list-style-type: none"> Textile Chemistry courses to be started in Polytechnic / Private Engineering Colleges, quality techniques and time and motion studies to be included in engineering courses Introduction courses in polytechnics in the area of Instrument Mechanic for Chemical Plant, Laboratory Assistant, Refrigeration and Air-conditioning Mechanic for pharma and chemical companies Diploma in Pharmacy to be started at Government Polytechnic, Nahan 	Technical Education Wing		District Development Plan

#	Principal Initiatives/Focus	Sub-initiatives	Implementation Agency		Reference
			Lead Agency	Supporting Agency	
		<ul style="list-style-type: none"> Increase the intake for plastic processing operators in Sirmaur 			
		<ul style="list-style-type: none"> Quality techniques to be made an integral part of the engineering degree / diploma courses across all specialisation 	Technical Education Wing	Leading Quality Certification Agency	District Development Plan
		<ul style="list-style-type: none"> Introduce automobile engineering course at Govt. Polytechnic College, Una 	Technical Education Wing	SIAM / Leading OEM	District Development Report
		<ul style="list-style-type: none"> Collaboration of NHPC with Govt Polytechnic to train local population in semi-skilled jobs such as operation of earth moving equipments and heavy machinery. 	Technical Education Wing	NHPC	District Development Plan
3	Creating Market Awareness	<ul style="list-style-type: none"> Short term exchange programme (duration of 4 to 6 weeks) with leading educational institutions and companies in India 	Technical Education Wing		Employability Focussed Skill Development Initiative
4	Skill Assessment and Monitoring	<ul style="list-style-type: none"> Identification of assessment agency Identification of students 	Technical Education	Industry Department	Employability Focussed Skill

#	Principal Initiatives/Focus	Sub-initiatives	Implementation Agency		Reference
			Lead Agency	Supporting Agency	
		<ul style="list-style-type: none"> • Testing • Administration • Review and Monitoring 	Wing		Development Initiative

3.1.3. Department of Education

#	Principal Initiatives/Focus	Sub-initiatives	Implementation Agency		Reference
			Lead Agency	Supporting Agency	
1	Introduction of new courses	<ul style="list-style-type: none"> Introduction of basic computer literacy, communication and personality improvement courses at Govt Degree College, Chamba so that students can be imparted skills required in BPO companies. 	Department of Education		District Development Plan
		<ul style="list-style-type: none"> Compulsory inclusion of computer education in government schools for XI and XII students with a basic functioning knowledge of operating systems 	Department of Education		
		<ul style="list-style-type: none"> Computerisation of government colleges and introduction of computer training in specific BPO processes for different courses <ul style="list-style-type: none"> <i>Bachelor of Commerce</i>: Revenue Accounting and MIS, Insurance Claims Processing, Tele-marketing for financial products <i>Bachelor of Science</i>: Medical Transcription <i>Bachelor of Arts</i>: Customer Support for credit card, 	Department of Education		

#	Principal Initiatives/Focus	Sub-initiatives	Implementation Agency		Reference
		<p>telecom services, consumer durable</p> <ul style="list-style-type: none"> – <i>Bachelor of visual communications</i> – <i>Bachelor of Science:</i> Animation, Media etc., – <i>Bachelor of Arts:</i> Journalism <ul style="list-style-type: none"> • To invest in computer labs and voice training labs in the colleges 			
		<ul style="list-style-type: none"> • IATA / UFTAA certification in ticketing, tour planning and pricing for school drop-outs after class X in Shimla, Solan and Sirmaur 	Department of Education	Department of Tourism	District Development Plan
2	Creating Market Awareness	<ul style="list-style-type: none"> • Short term exchange programme (duration of 4 to 6 weeks) with leading educational institutions and companies in India 	Department of Education		Employability Focussed Skill Development Initiative
3	Skill Assessment and Monitoring	<ul style="list-style-type: none"> • Identification of assessment agency • Identification of students • Testing • Administration • Review and Monitoring 	Department of Education	Industry Department	Employability Focussed Skill Development Initiative

3.1.4. Directorate of Horticulture

#	Principal Initiatives/Focus	Sub-initiatives	Implementation Agency		Reference
			Lead Agency	Supporting Agency	
1	Introduction of new courses	<ul style="list-style-type: none"> Short term training courses to be organised in floriculture and horticulture activities being carried out in green-houses by District Directorate of Horticulture in collaboration with Y S Parmar University, Solan. Weekly awareness and sensitisation camps in villages through extension officers of Horticulture department. 	Directorate of Horticulture	Y.S.Parmar University	District Development Plan
2	Promotion of Industrial Cluster	<ul style="list-style-type: none"> Promotion of oil extraction units in Chamba Promotion of agro processing in the area of tea processing and packing, spices production and packaging, pickles and starch production and manufacturing of apple cider 	Directorate of Horticulture	Dept of Industries	
3	Training	<ul style="list-style-type: none"> Promotion of poly houses and formal training on harvest and post-harvest practices 	Directorate of Horticulture		
4	Centre of	<ul style="list-style-type: none"> Setting-up of Centre for Retail Management of Horticultural 	Directorate of	Y.S.Parmar University	

#	Principal Initiatives/Focus	Sub-initiatives	Implementation Agency		Reference
			Lead Agency	Supporting Agency	
	Excellence	Products in Shimla	Horticulture		
5	New Technology Application	<ul style="list-style-type: none"> Promotion of usage of poly houses in Lahaul & Spiti 	Directorate of Horticulture		District Development Plan

3.1.5. Department of Rural Development

#	Principal Initiatives/Focus	Sub-initiatives	Implementation Agency		Reference
			Lead Agency	Supporting Agency	
1	Unorganised retail and household business	<ul style="list-style-type: none"> Provide technical support to unorganised retail trade in Himachal Pradesh 	Rural development	Animal husbandry, Dept of Tourism	District Development Plan

3.1.6. Department of Animal Husbandry

#	Principal Initiatives/Focus	Sub-initiatives	Implementation Agency		Reference
			Lead Agency	Supporting Agency	
1	Dairy Farming	<ul style="list-style-type: none"> • Promotion of dairy farming in Bilaspur, Chamba, Hamirpur, Kangra and Solan • Provide technical support in the form of information about better feed, better cattle management. Further, the department should also encourage formation of local milk co-operatives. • Training local people in milk co-operatives and collection process. • Encourage entrepreneurs to set-up central dairy plant 	Animal Husbandry	Rural Development and Industry	District Development Plan

3.1.7. Department of Tourism

#	Principal Initiatives/Focus	Sub-initiatives	Implementation Agency		Reference
			Lead Agency	Supporting Agency	
1	Cluster development initiative	<p>1. Promote HP tourism with specific focus on options, differentiation and experience. In this context, we are proposing segmentation of HP tourism industry into number of tourist circuits targeting various special categories of tourists.</p> <ul style="list-style-type: none"> a. Leisure Tourism focusing on Parwanoo, Chail, Kasauli, Shimla and Kullu/Manali b. Adventure Tourism focussing Chamba, Lahaul & Spiti (Camping and Trekking), Kangra (Water Sports), Bilaspur (Water Sports) and Manali c. Cultural Tourism focussing on Hindu temples and Buddhist temples d. Rural Tourism to experience the local culture e. Agri Tourism to experience the farming practices <p>2. Establish Arts & Crafts village in Dharamsala and Chamba and</p>	Dept of Tourism		Cluster Development Initiative

#	Principal Initiatives/Focus	Sub-initiatives	Implementation Agency		Reference
			Lead Agency	Supporting Agency	
		<p>organise following activities:-</p> <ol style="list-style-type: none"> a. Themed Evening Entertainment: - b. The themed evening entertainment featuring lifestyle of local people with authentic dinner and entertainment can be created to visitors especially coach tours. The themes for consideration might include rituals of HP performed by local people with local costume and entertainment. c. Potential venues could include an existing bungalows or mansions or proposed Arts & Crafts village. d. Arts & Crafts Training: - To experience the arts & crafts of Kangra, Chamba and Lahaul and Spiti handicrafts, special training can be organised to visiting tourist. e. Food Festivals: Provide local cuisine to tourists and conduct food festival <p>3. To provide support to visiting tourist, we propose setting-up of:</p> <ol style="list-style-type: none"> a. Self-service information points at a number of strategic locations e.g. Airports, Railways Stations, Hotels etc., 			

#	Principal Initiatives/Focus	Sub-initiatives	Implementation Agency		Reference
			Lead Agency	Supporting Agency	
		<ul style="list-style-type: none"> b. Consider the provision of information kiosks at high density tourist spots c. Consider promotion of Radio Taxi in important tourism locations - Shimla and Kullu - Manali d. Introduce a system of information tourist signage e. Have dedicated information and transaction oriented website to provide one stop solutions to tourist in terms of accessibility, reservation, booking packages, linkage to tourist operators, local guides, taxi operators etc. f. Recruit a network of volunteer as informational guides. g. Set up a common call centre to provide tourist information – a cost effective means that can be accessed from all tourist destinations and the entry points <p>4. To drive tourism activities in Himachal Pradesh, we propose setting-up of Heritage Tourism Development Authority under the HPTDC at the district level to promote various tourism</p>			

#	Principal Initiatives/Focus	Sub-initiatives	Implementation Agency		Reference
			Lead Agency	Supporting Agency	
		circuits focusing on marketing, product, infrastructure and investment strategy			
2	Training Course	<ul style="list-style-type: none"> • Increase the intake of students at Regional Water Sports Centre in Kangra district to satisfy the demand for professionals / instructors for adventure sports within the state as same infrastructure facility should be put to better use • Set up a Regional Mountaineering Centre similar to Kangra to impart training regarding adventure sports. Chamba district offers a lot of avenues for trekking, camping, rock climbing but all round development of these activities requires professional assistance. • Increase intake at Regional Mountaineering Centre, Dharamsala to induct more professional trekkers, guides in the tourism sector in order to provide a more enriching experience to the customers. HPTDC to also make it mandatory for all guides to be professionally trained at the Regional Mountaineering Centre 	Dept of Tourism		District Development Plan

#	Principal Initiatives/Focus	Sub-initiatives	Implementation Agency		Reference
			Lead Agency	Supporting Agency	
3	Specialised Centre for Higher Education	<ul style="list-style-type: none"> Set up an extension branch of the Institute of Hotel Management, Kufri to impart professional courses in tourism. 	Dept of Tourism		District Development Plan
		<ul style="list-style-type: none"> Promotion tourist locations like the historical fort of Sujampur Tihra in Hamirpur under event – based marketing around annual festival of Holi Promotion of tourism opportunities in adventure sports apart from leisure tourism and religious tourism The department should intensify restoration and maintenance activities at Kangra Fort to promote weekend tourism HPTDC to aggressively promote Maharana Pratap Sagar reservoir as a destination for water sports such as boating, kayaking, water skiing, bird watching and fishing. For the purpose, HPTDC should organise competitions by inviting professional athletes from across the world similar to the World Paragliding competition which is organized at Dharamsala. Solan can be developed as entertainment hub aimed at transit tourist travelling by road from Delhi and Chandigarh to Shimla. 			District Development Plan

#	Principal Initiatives/Focus	Sub-initiatives	Implementation Agency		Reference
			Lead Agency	Supporting Agency	
		<ul style="list-style-type: none"> • Una has few attractions for religious travellers such as Dera Baba Bharbhag Singh and Chintpurni Temple. These places are frequented by thousands of devotees every year. However lack of hospitality infrastructure deters many people from visiting these places. Further, event based marketing during festival season can help improve the tourist inflow to Una. • The district presents tremendous opportunities for promoting Buddhist tourism as lot of monasteries and Gompas are present in Lahaul and Spiti valleys. • Keylong in Lahaul valley lies on the Manali-Leh route and should be promoted as an important way-side tourism with avenues for adventure and religious tourism. • Kinnaur offers tremendous scope for adventure sports such as camping, trekking, mountaineering and rock climbing. Skiing as an avenue can also be explored for development. The district needs to be promoted aggressively by Dept. of Tourism, Himachal Pradesh as presently there is not enough information or brand recall of the various destinations amongst tourists, domestic as well as foreign. 			

#	Principal Initiatives/Focus	Sub-initiatives	Implementation Agency		Reference
			Lead Agency	Supporting Agency	
		<ul style="list-style-type: none"> Promotion of tourism cluster in Kullu Promotion of courses in hang gliding and para gliding in Kullu Mandi district has a few scenic places such as Nerchowk and other places in Beas valley which can be promoted for Health tourism by setting of Spas, Aromatherapy and Naturotherapy units. Further, the cultivation of herbs and Ayurvedic plants should be encouraged in the district to build up the brand image for Health Tourism. 			
		<ul style="list-style-type: none"> Increase in reach and penetration of handicraft products of HP through web based market place like e-bay 	Department of Tourism	Web-based market place	District Development Plan
		<ul style="list-style-type: none"> Application of UNESCO Seal of Excellence for handicrafts products 	Department of Tourism	UNESCO	District Development Plan

3.1.8. Department of Industries - focussing on Pharma, IT/ITeS, Power sectors

#	Principal Initiatives/Focus	Sub-initiatives	Implementation Agency		Reference
			Lead Agency	Supporting Agency	
1	Cluster development initiative - Pharmaceuticals	To facilitate development of pharmaceutical industry, we propose setting-up of centre for excellence in biotechnology and bioinformatics	Industry Dept	Industry Association	Cluster Development Initiatives
2	Cluster development initiative – IT/ITeS	Propose setting-up of Centre for Data Analytics (CDA) in Shimla to provide high end skilled human resources to IT/ITES companies. This would help in attracting new investments and also improve the employability of students.	Industry Dept	Industry Association	Cluster Development Initiatives
3	Cluster development initiative – Power	Propose setting-up of training centre in association with investing companies to provide skilled human resources. This centre will act as a source of trained human resources for the state.	Industry Dept	Industry Association	Cluster Development Initiatives
4	Skill Development Centre	Propose skill development initiative in Pharma, Light Engineering, IT/ITES, Tourism, and Construction clusters	Industry Dept	Industry Association	Cluster Development Initiatives

3.1.9. Department of Labour & Employment

#	Principal Initiatives/Focus	Stage	Activities	Implementation	Reference
1	Large Scale Skill Development Initiatives	Identification of Trainees (minimal educated youths)	<ul style="list-style-type: none"> Registration of target group (minimal educated youths) 	<ul style="list-style-type: none"> Employment Exchanges 	Large Scale Skill Development Initiatives
			<ul style="list-style-type: none"> Screening and short listing 	<ul style="list-style-type: none"> Employment Exchanges 	
		Administration of training	<ul style="list-style-type: none"> Preparation of course material 	<ul style="list-style-type: none"> Technical education under SCVT system 	
			<ul style="list-style-type: none"> Identification of education infrastructure 	<ul style="list-style-type: none"> Technical education 	
			<ul style="list-style-type: none"> Identification and Registration of NGO's 	<ul style="list-style-type: none"> CII Skill Development website ASSOCHAM FICCI 	
			<ul style="list-style-type: none"> Certification 	<ul style="list-style-type: none"> CII 	
		Employment Market Linkage	<ul style="list-style-type: none"> Identification of target companies and staffing companies 	<ul style="list-style-type: none"> CII Skill Development website ASSOCHAM FICCI 	

#	Principal Initiatives/Focus	Stage	Activities	Implementation	Reference
			<ul style="list-style-type: none"> MoU with companies and staffing agencies 	<ul style="list-style-type: none"> Labour & Employment 	
		Review and Monitoring		<ul style="list-style-type: none"> Labour & Employment with regular feedback from staffing agencies and companies 	

3.1.10. Department of Planning

#	Principal Initiatives/Focus	Sub-initiatives	Implementation Agency		Reference
			Lead Agency	Supporting Agency	
1	Budget Estimate	Initiative wise budget proposals for skill development initiatives (as per the budget estimate)	Department of Planning	Focus Department	Funding requirement and mechanism
2	Funding mechanism	Propose PPP initiatives in the area of infrastructure creation, skill assessment and monitoring, skill development centres and cluster development initiatives	Department of Planning	Industry Department	Funding requirement and mechanism

3.1.11. Department of Healthcare

#	Principal Initiatives/Focus	Sub-initiatives	Implementation Agency		Reference
			Lead Agency	Supporting Agency	
1	Paramedical Opportunities	Initiatives to improve the skill level of paramedical staff in HP	Department of Health	Dept of Education	

4. Prioritisation of Skill Development Initiatives

Prioritisation Criteria

1. Impact on employment generation
2. Ease of implementation
3. Scalability of skill development initiatives
4. Cost of Implementation

Based on the above prioritisation criteria, we have shortlisted following initiatives.

#	Initiative	Sub-initiative	Cost / Trainee	No. of Trainees	Potential Employment Opportunities	Funding
1	Large Scale Skill Development Initiative	Basic & Advanced Training Programme	6000	21,000.	20,000	PPP
2	Employability Focussed Skill Development	Introduction of new courses	700	20000	Qualitative Improvement in Skill Level	Govt Funded

#	Initiative	Sub-initiative	Cost / Trainee	No. of Trainees	Potential Employment Opportunities	Funding
	Initiative					
		Shift System in ITI's and Polytechnics	Nil	4000		Govt funded
		Shared Service Model	Nominal	10,000 Students every year will benefit	Qualitative Improvement in Skill Level	PPP
		Skill Assessment of unemployment youths	5000	10,000 unemployable youths	8000	Trainee fee reimbursable on successful placement
3	Cluster Development Initiative	Tourism	Rs.50 Crore for development		100000	
		Drivers	Nil	500 / year	500	PPP

#	Initiative	Sub-initiative	Cost / Trainee	No. of Trainees	Potential Employment Opportunities	Funding
		Training Institute				
		Power Training Institute	Nil	500/ year	500	PPP

4.1. Initiative Name:

Large Scale Development Initiative

4.1.1. Sub-Initiatives:

1. Basic Training Programme
2. Advanced Training Programme

4.1.2. Focus Industries

1. Construction
2. Food Processing
3. Repair Services
4. Drivers Training
5. Poly house Training

6. Hospitality Training

4.1.3. Target Sample Size: 20,000

Districts	Focus Industry					
	Construction	Food Processing	Repair Services	Drivers Training	Poly house Training	Hospitality Training
	Industry wise break up					
	7000	1000	750	750	500	10000
Bilaspur						
Chamba						
Una						
Sirmaur						
Shimla						
Solan						

Districts	Focus Industry					
	Construction	Food Processing	Repair Services	Drivers Training	Poly house Training	Hospitality Training
	Industry wise break up					
	7000	1000	750	750	500	10000
Hamirpur						
Kangra						
Kinnaur						
Lahaul & Spiti						
Kullu						
Mandi						

4.1.4. Implementation Plan

#	Stage	Activities	Responsibility
1	Identification of Trainees	<ul style="list-style-type: none"> Registration of target group 	<ul style="list-style-type: none"> Employment Exchanges

#	Stage	Activities	Responsibility
	(minimal educated youths)	(minimal educated youths)	
		<ul style="list-style-type: none"> • Screening and short listing 	<ul style="list-style-type: none"> • Employment Exchanges
2	Administration of training	<ul style="list-style-type: none"> • Preparation of course material 	<ul style="list-style-type: none"> • Technical education under SCVT system
		<ul style="list-style-type: none"> • Identification of education infrastructure 	<ul style="list-style-type: none"> • Technical education
		<ul style="list-style-type: none"> • Identification and Registration of NGO's 	<ul style="list-style-type: none"> • CII Skill Development website • ASSOCHAM • FICCI
		<ul style="list-style-type: none"> • Certification 	<ul style="list-style-type: none"> • CII
3	Market Linkage	<ul style="list-style-type: none"> • Identification of target companies and staffing companies 	<ul style="list-style-type: none"> • CII Skill Development website • ASSOCHAM • FICCI
		<ul style="list-style-type: none"> • MoU with companies and staffing agencies 	<ul style="list-style-type: none"> • Labour & Employment

#	Stage	Activities	Responsibility
4	Review and Monitoring		<ul style="list-style-type: none"> Labour & Employment with regular feedback from staffing agencies and companies

4.1.5. Cost of Training Programme (Break up of Cost per Person)

Sl. No	Particulars	Responsibility	Rate	No	Amount (Rs.)
I	Identification and Registration of Candidates & Trainers	Employment Exchanges			25
	Screening of Candidates	Employment Exchanges			50
II	Administration of Training	Employment Exchanges			
III	<i>Preparation of Training Material, Identification of Training Infrastructure</i>	Industrial Training Wing			100
IV	<i>Testing & Certification</i>	Industrial Training Wing/Association			150
V	<i>Accommodation, food during the Training period</i>	Employment Exchanges	40	30	1200
VI	Stipend	Employment Exchanges	50	30	1500
VII	Faculty Cost	Industrial Training Wing	100	30	3000
Total					6025

4.1.6. Funding Mechanism: The above training can be funded through public private partnership model. The reimbursement of training fee can be linked to success of finding a suitable employment on completion of training course

4.1.7. Employment Potential: 20,000

4.2. Initiative Name:

Capacity Building of ITI's

4.2.1. Sub-Initiatives:

#	Sub-initiatives	Implementation Agency	
		Lead Agency	Supporting Agency
1.	<ul style="list-style-type: none"> Incremental increase in capacity of ITI to 4000 primarily through introduction of shift system in Shimla, Mandi, Kangra and Hamirpur. 	Industrial Education Wing	
2.	<ul style="list-style-type: none"> Increase in intake for motor vehicle mechanic in ITI Bilaspur 	Industrial Education Wing	

#	Sub-initiatives	Implementation Agency	
		Lead Agency	Supporting Agency
3.	<ul style="list-style-type: none"> Introduction of Motor driving and Heavy Equipment Operator Training in ITI Bilaspur 	Industrial Education Wing	
4.	<ul style="list-style-type: none"> Introduction of courses under SCVT particularly aimed at hydro power technicians / operators 	Industrial Education Wing	NPTI/ PMI
5.	<ul style="list-style-type: none"> New courses to be introduced at ITI Chamba in the area of hydel power generation such as blasting, concreting and earth moving equipment 	Industrial Education Wing	NPTI
6.	<ul style="list-style-type: none"> Introduction of courses in ITI Hamirpur in the area of fruit processing and pinestry 	Industrial Education Wing	Department of Agriculture
7.	<ul style="list-style-type: none"> Introduction of craftsmen food production and steward under the NCVT system or modular employable skills in select ITI's 	Industrial Education Wing	Leading Hotel Chain
8.	<ul style="list-style-type: none"> Food craft training in cooking, baking and bartending after class XII to be started under SCVT certification in collaboration with leading hotel chain in ITI Shimla 	Industrial Education Wing	Leading Hotel Chain
9.	<ul style="list-style-type: none"> Preservation of fruits and vegetables, refrigeration and air-conditioning 	Industrial	

#	Sub-initiatives	Implementation Agency	
		Lead Agency	Supporting Agency
	mechanic with focus on HVAC technology in ITI's Shimla	Education Wing	
10.	<ul style="list-style-type: none"> Commissioning of ITI in Shoghi itself with focus on engineering trades such as Electrician, Wireman, Sheet Metal Worker, Welder, Plumber Increase the intake for Machinist, Refrigeration and Air-conditioning mechanic, electronics mechanic in other ITI in the district 	Industrial Education Wing	
11.	<ul style="list-style-type: none"> Maintenance courses for spinning and weaving machines as well as captive power plants to be introduced for Fitters in ITI Sirmaur Fashion Technology trade to be started under NCVT in ITI Sirmaur Weaving courses with specific focus on weaving preparatory activities to be started under SCVT in ITI Sirmaur 	Industrial Education Wing	Leading Textile company
12.	<ul style="list-style-type: none"> Food technology to be started in few ITI's in Sirmaur district 	Industrial Education Wing	In association with CFTRI Mysore
13.	<ul style="list-style-type: none"> Commissioning of new engineering trades under NCVT such as Mechanic, Electrician, Wireman, Sheet Metal Worker, Refrigeration and Air-conditioning Mechanic, Auto Electrical and Electronics in ITI Sirmaur 	Industrial Education Wing	

#	Sub-initiatives	Implementation Agency	
		Lead Agency	Supporting Agency
	<ul style="list-style-type: none"> • Increase the intake for existing courses such as fitter, turner, Plastic Processing Operator in the existing ITI • Certain course level changes to be implemented such as training on CNC machines, Arc and Submerged welding for Welders, CAD/CAM for electronics and mechanical trades 		
14.	<ul style="list-style-type: none"> • Upgradation of ITI Solan with modern equipment such as modern welding and CNC machines 	Industrial Education Wing	
15.	<ul style="list-style-type: none"> • New trades to be introduced in ITI Una for motor mechanic, automobile engineering and electronics. 	Industrial Education Wing	
16.	<ul style="list-style-type: none"> • Training of local manpower in short-term courses such as blasting, drilling, heavy earth moving machinery and concreting 	Industrial Education Wing	
17.	<ul style="list-style-type: none"> • Short term exchange programme (duration of 4 to 6 weeks) with leading educational institutions and companies in India 		

4.2.2. Cost of Capacity Building

Sl. No	Particulars	Responsibility	Rate	No. of courses	Amount (Rs.Lakh)
1	Introduction of Courses	Industrial Training Wing	20000	40	8
2	Introduction of Courses - Polytechnic	Industrial Training Wing	20000	20	4
3	Introduction of Courses - Colleges	Higher Education	20000	10	2

4.2.3. Benefits: 20,000 students covering ITI, Polytechnic and Engineering based on revised projected capacity requirement

4.3. Initiative Name:

Capacity Building of ITI's

4.3.1. Sub-Initiatives:

Shared service model of ITI and Polytechnic to reduce infrastructure funding of new ITI's

4.3.2. Focus Districts:

1. Shimla

2. Mandi
3. Kangra
4. Solan

4.3.3. Implementation Plan

#	Stage	Activities	Responsibility
1	Identification of Facilities	<ul style="list-style-type: none"> • List of infrastructure and equipment facilities 	<ul style="list-style-type: none"> • Department of Technical Education
2	Identification of faculty	<ul style="list-style-type: none"> • Screening and short listing 	<ul style="list-style-type: none"> • Department of Technical Education
3	Administration of training	<ul style="list-style-type: none"> • Preparation of course material 	<ul style="list-style-type: none"> • Technical education under SCVT system
		<ul style="list-style-type: none"> • Identification of education infrastructure 	<ul style="list-style-type: none"> • Technical education
4	Review and Monitoring		<ul style="list-style-type: none"> • Technical Education

4.3.4. Cost of Shared Service Model: Rs. 5 Crore

4.3.5. Benefits: Saving on account of reduced infrastructure spending on creation of new ITI's and Polytechnics

4.4. Initiative Name:

Employability Linked Skill Development Initiative

4.4.1. Sub-Initiatives:

Skill assessment and linkage with employers

4.4.2. Focus Districts: Covering all districts

4.4.3. Target Sample: 20000 employable youths

4.4.4. Implementation Plan

#	Stage	Activities	Responsibility
1	Identification of	<ul style="list-style-type: none">MoU with leading soft skill trainer e.g. British Council,	<ul style="list-style-type: none">Department of

#	Stage	Activities	Responsibility
	assessment agency	University of Cambridge <ul style="list-style-type: none"> • Agree on service level performance 	Higher Education <ul style="list-style-type: none"> • Industry Department
2	Identification of students	<ul style="list-style-type: none"> • Segmentation of Unemployable youths 	<ul style="list-style-type: none"> • Employment Exchange
3	Testing	<ul style="list-style-type: none"> • Screening of unemployable youths 	<ul style="list-style-type: none"> • Training organisation
4	Administration of training		<ul style="list-style-type: none"> • Training organisation
5	Job Mela	Placement Mela with prospective companies	<ul style="list-style-type: none"> • Labour & Employment
6	Review and Monitoring		<ul style="list-style-type: none"> • Labour & Employment

4.4.5. Cost of Skill Assessment & Employee Linkage: Rs.5000 per employable youth

4.4.6. Benefits: Employment opportunities to 10000 employable youths.

4.5. Initiative Name:

Cluster Development Initiative

4.5.1. Sub-Initiatives:

Cluster Development Initiative focussing on Tourism

- ii. Promote HP tourism with specific focus on options, differentiation and experience. In this context, we are proposing segmentation of HP tourism industry into number of tourist circuits targeting various special categories of tourists.
 - a. Leisure Tourism focusing on Parwanoo, Chail, Kasauli, Shimla and Kullu/Manali
 - b. Adventure Tourism focussing Chamba, Lahaul & Spiti (Camping and Trekking), Kangra (Water Sports), Bilaspur (Water Sports) and Manali
 - c. Cultural Tourism focussing on Hindu temples and Buddhist temples
 - d. Rural Tourism to experience the local culture
 - e. Agri Tourism to experience the farming practices
- iii. Establish Arts & Crafts village in Dharamsala and Chamba

4.5.2. Focus Districts: Covering all districts

4.5.3. Implementation Plan

#	Stage	Activities	Responsibility
1	Develop cluster development plan	<ul style="list-style-type: none"> • Identify key industries attributes • Identify forward and backward linkages to sustain competitive advantage of cluster • Facilitate creation of forward and backward linkages • Identify key performance gaps 	<ul style="list-style-type: none"> • Project Manager, Industry Department
2	Perspective plan for skills development	<ul style="list-style-type: none"> • Identify current and future skill requirement 	<ul style="list-style-type: none"> • Labour & Employment • Project Manager, Industry Department
3	Administration of		<ul style="list-style-type: none"> • Project Manager,

#	Stage	Activities	Responsibility
	skill development initiative		Industry Department
4	Review and Monitoring		<ul style="list-style-type: none"> Project Manager, Industry Department

4.5.4. Cost of Building Tourism Cluster: Rs.50 crore

4.5.5. Benefits: Direct & Indirect employment opportunities to over 1 lakh people

4.5.6. Funding Mechanism: PPP opportunities are available in the area of Arts & Village and Training Centre.

5. Fund Requirement (Initiative wise District wise and Department wise)

Districts/ Departments	Initiative	Large Scale Skill Development initiative	Employability Focussed Skill Development				Cluster Development Initiative		
	Sub- initiative	Basic and Advanced Training Programme	Introduction of new courses	Skill Assessment	Shift system in ITI's / Polytechnic	Shared Service Model	Tourism	Drivers Training Institute	Power Training Institute
	Cost (Rs.Cr)	12.7	1.4	5	Nominal	5	50	5	5
District wise Fund Requirement									
Bilaspur		0.47						5	
Chamba		0.84							
Una		0.12							
Sirmaur		0.84							
Shimla		1.83				1.25			

Districts/ Departments	Initiative	Large Scale Skill Development initiative	Employability Focussed Skill Development				Cluster Development Initiative		
	Sub- initiative	Basic and Advanced Training Programme	Introduction of new courses	Skill Assessment	Shift system in ITI's / Polytechnic	Shared Service Model	Tourism	Drivers Training Institute	Power Training Institute
Solan		2.43				1.25			
Hamirpur		0.60							
Kangra		1.23				1.25			
Kinnaur		0.60							
Lahaul & Spiti		0.10							
Kullu		1.38							
Mandi		2.27				1.25			5
Department wise Fund Requirement									
Departments									
Labour & Employment		5		4.5			3		
Industrial Training Wing and Technical Education Wing		5	1.0			5	2		

Districts/ Departments	Initiative	Large Scale Skill Development initiative	Employability Focussed Skill Development				Cluster Development Initiative		
	Sub- initiative	Basic and Advanced Training Programme	Introduction of new courses	Skill Assessment	Shift system in ITI's / Polytechnic	Shared Service Model	Tourism	Drivers Training Institute	Power Training Institute
Higher Education			0.4	0.5					
Tourism							45		
Industry									5
Dept of Horticulture		1							
Dept of Animal Husbandry		1							
Dept of Transportation		1						5	

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