

**MAJOR COMPONENT-** Vocational Education

**SUB-COMPONENT-** Introduction of Vocational Education at Secondary and higher Secondary

**ACTIVITY MASTER-** Recurring Support VE - Existing

**ACTIVITY-** Recurring Support VE - Existing

## **1. Progress Report in r/o Residential School/Hostel-2018-19**

### **Major Activities Undertaken by Vocational Branch**

1. Delhi has implemented National Skills Qualification Framework (NSQF) from the academic year 2014-15.
2. NSQF scheme was introduced through Vocational Training Partners (VTP) for six vocational subjects who are providing required Vocational Trainers (VTs) in the NSQF scheme for an honorarium of Rs.20000 per month.
3. Currently the scheme is running in 274 schools out of which 22 schools are running under Centrally Sponsored Scheme.
4. Currently there are 605 VTs engaged out of which 44 trainers are engaged in centrally sponsored scheme by 11 VTPs in 274 schools from classes 9<sup>th</sup> to 12<sup>th</sup>
5. Total 3339 students were enrolled for NSQF in 22 schools in the year 2018-19 in classes IX, X, XI & XII.
6. Approximate 82435 students were enrolled for vocational subjects under NSQF in class IX, X, XI & XII.
7. Books were distributed among students on General Employability Skills (Students workbooks) and General Employability Skills (Facilitator Manual)
8. Scheme of studies were announced for both secondary and senior secondary level.
9. Total 2164 Industrial visits have been conducted for 274 schools during the academic year 2018-19.

10. Total 10365 Guest Lectures have been conducted for 274 schools during the academic year 2018-19.
11. 4 day In-service training of all 605 Vocational Trainers was conducted in the month of June 2018.
12. 14 day In-service training of 10 Retail Trade Trainers from 23<sup>th</sup> Jan to 10<sup>th</sup> Feb 2019 was conducted.
13. The students enrolled for Financial Market Management Trade were also got registered with National Stock Exchange and online examination for these students was conducted by National Stock Exchange for 6500 students enrolled in Financial Market Management Trade
14. On the Job training (approx. 02 weeks) for all the Govt. School of Delhi under Vocational Stream for part time Vocational Teachers was conducted.
  - i. Boot camp was conducted for the batch of 2017-18 class XII (April 2018) on:
    - a) Soft skill training
    - b) General Employability Skills
    - c) Mock Interviews and resume making
  - ii. Phase 1 boot camp was organised on resume building and interview skills for class 12th with approx. 1200 student across schools in Delhi.
  - iii. Skill Competition was organised, prizes and certificates awarded to 88 finalist participants
  - iv. On The Job Training was conducted for 4000 students in all six NSQF subject during summer vacation (May-June 2018).
  - v. Career Conclave 2018-19 was organized for providing guidance to thousands of students on educational and employment prospects in vocation space.

**Total expenditure for Vocational Education was Rs.237.32944 lakh**

## **2. Proposal for Residential Hostel in AWP& B-2019-20**

The proposal is to **continue NSQF in 22 Schools** from class IX (Level-1) to class XII(Level-4) under Centrally Sponsored Scheme “Vocationalization of Secondary & Higher Secondary Education” during Academic year of 2019-20– A Pilot Project under NSQF and **introduce it in 60 new schools.**

Secondary and higher secondary education are important terminal stages in the system of general education where options are exercised by youth to enter the world of employment or to go in for technical training or to pursue higher general education. The Directorate of Education, Government of NCT of Delhi is the organisation for implementation of secondary education in 9<sup>th</sup> and 10<sup>th</sup> class and higher secondary education in class XI & XII in Delhi. The Aims & objectives are:

1. To link education with productivity
2. To reduce the mis-match between the demand and supply of manpower.
3. To meet the middle level man-power needs of growing sectors of the economy both organized and unorganized.
4. To diversify sizeable segments of student population at the senior secondary stage towards the world of work by imparting skill and technical knowledge in various occupational areas and preparing them for self/wage employment and provide an alternative for those pursuing higher education with particular interest and purposed.

The Vocational Education in Delhi was introduced w.e.f. Academic Year 1977-78 and at the same time 10+2 pattern of Education system was adopted. In the beginning, the Vocational courses were started in 15 Senior Secondary Schools with 9 Vocational Courses at the +2 stage under Vocational Stream.

The Directorate of Education, Government of NCT of Delhi is the organisation for implementation of Secondary and Higher Secondary education in Delhi. Knowledge and skill both are integral part of education system. The Directorate of Education is committed to implement the new scheme (NSQF) by integrating Vocational Education with Academic Course, to enable the students to earn their livelihood and lead a quality life.

The quality and quantity of skilled man power in any country depends on success of vocational Education & Training in imparting appropriate employable skills to its young population. Skill and Knowledge are the driving forces of economic growth and social development of any country. India’s vocational skill and training system is now in transition.

The National Policy planners have considered higher secondary stage of school education as crucial as it is at this stage that necessary skills and competencies are acquired which enable the students to enter the world of work or to go for higher general education or technical training.

Vocational Education has been accorded high priority in the National Policy of Education, 1986. The National Policy on Education (NPE), 1986 states, "The introduction of systematic well-planned and rigorously implemented program of Vocational Education is crucial in the proposed education re-organization".

### **Need for revamping Vocational Education Programme:**

The Students completing the higher secondary education, need to be imparted both generic and specific skills that will help them to lead a quality life. This is where the relevance of vocational Education training comes into picture. Through properly planned and effectively implemented Vocational Education training program, there is a possibility to prepare employable persons for sustained employment.

The relevance of Vocational Education has increased in the fast growing Indian economy, especially in the light of the government's thrust on universalisation of secondary education, skill development and social justice through inclusive education and training. The students after completing 10+2 with vocational subjects under NSQF will have opportunities not only to enter the world of work through wage or self-employment but also can have lateral and vertical mobility in the educational system.

### **National Skill Qualification Framework (NSQF)**

If India wants to have competitive advantage, it needs to restructure its Vocational Education and Training (VET) System. Consequently based on current and future requirements and taking a cue from the experience over the years of scheme of Vocationalisation of secondary and higher secondary education, a revised scheme is now proposed.

MHRD, New Delhi has revamped the centrally Sponsored Scheme (CSS) of "Vocationalisation of secondary and higher secondary education". A need to develop a National Skill Qualifications Framework (NSQF) for establishing a system of clear educational pathways from school to higher education was proposed. Hence, the (NSQF) will be the backbone of Vocationalisation of higher secondary education during the XII Plan. The NSQF serves as an instrument for classifying qualifications according

to a set of criteria for levels of learning outcomes arranged in ascending order from 1 to 10 levels.

It is intended to prepare skilled persons for identified vocations/trades as per demand of emerging economy. Industry / employer in several areas, which includes both the organized and un-organized sectors. Two diverse certificates (one for academic and other for vocational) would be awarded to a student on completion of each module.

NSQF was introduced in the **following 22 Government schools** from 9<sup>th</sup> standard from 9<sup>th</sup> (Level 1) in the session 2014-15

### LIST OF SCHOOLS WITH ID

S. No.	School ID	Name of the School	Information Technology	Automobile	Security	Retail	Multi Skill Foundation Course	Health Care Trade
1	1002005	SBV, West Vinod Nagar, Delhi	Yes	----	Yes	--	Proposed as trade replacement for security at class 9 <sup>th</sup>	Proposed as trade replacement for security at class 11 <sup>th</sup>
2	1002034	JDSK, Ph-II, MayurVihar, Delhi	Yes	----		Yes		
3	1104149	RPVV, Yamuna Vihar, Delhi	Yes	Yes	----	---		
4	1106019	SKV, Mandoli, Delhi	Yes	----	----	Yes		
5	1207039	GGSSS No. 1, Roop Nagar, Delhi	Yes	----	----	Yes		
6	1207022	GBSSS No.1, Mori Gate, Delhi	Yes	Yes		----		
7	1309001	SBV, C.C.Colony, Delhi	Yes	---	Yes	---	Proposed as trade replacement for security at class 9 <sup>th</sup>	Proposed as trade replacement for security at class 11 <sup>th</sup>
8	1309034	G.G.Sr. Sec. School, AdarshNagar, Delhi	Yes			Yes		
9	1411008	S.V. Pitampura, FU Block, Delhi	Yes	Yes				
10	1411043	G.G. Sr Sec School, Rani Bagh, Delhi	Yes			Yes		
11	1514005	SBV No.1, Tilak Nagar, Delhi	Yes	Yes				
12	1515026	GGSSS No. 1, Tagore Garden, Delhi	Yes			Yes		
13	1617009	RPVV, PaschimVihar, Delhi	Yes	Yes				
14	1618018	SKV, A-Block, Janakpuri, Delhi	Yes			Yes		
15	1719102	Sarvodaya Co-ed SSS, Netaji Nagar, NewDelhi	Yes		Yes		Proposed as trade replacement for security at class 9 <sup>th</sup>	Proposed as trade replacement for security at class 11 <sup>th</sup>
16	1720031	RPVV, B-1, VasantKunj, Delhi	Yes		Yes		Proposed as trade replacement for security at class 9 <sup>th</sup>	Proposed as trade replacement for security at class 11 <sup>th</sup>
17	1821015	SKV No.2, Palam Village, Delhi	Yes			Yes		
18	1821001	SBV No.2, Palam Enclave, Delhi	Yes		Yes		Proposed as trade replacement for security at class 9 <sup>th</sup>	Proposed as trade replacement for security at class 11 <sup>th</sup>
19	1924038	RPVV, Lodhi Road, TyagrajNagar, New Delhi	Yes			Yes		
20	1924004	GBSSS, Jangpura, New Delhi	Yes		Yes		Proposed as trade replacement for	Proposed as trade replacement for security at class

							security at class 9 <sup>th</sup>	11 <sup>th</sup>
21	2026005	SBV, JorBagh, New Delhi	Yes			Yes		
22	2026001	SV, President's Estate, New Delhi	Yes		Yes		Proposed as trade replacement for security at class 9 <sup>th</sup>	Proposed as trade replacement for security at class 11 <sup>th</sup>

### **3. Recommendation of Technical Support Group (TSG) -2019-20**

#### **Background**

22 schools have been approved for the introduction of Vocational Education from class 9<sup>th</sup> for Delhi. All schools have implemented are approved with an enrolment of 3360 students.

#### **Year Wise Approval**

<b>Year of Approval</b>	<b>No. of Schools Approved</b>
2013 – 14	22

#### **Sectors approved and their respective Job Roles**

<b>Sector</b>	<b>No. of Schools</b>
Automobile Technology	5
Information Technology	22
Retail Management	10
Security	7

#### **Implementation Status**

<b>Reported in PMS</b>		<b>As per AWP &amp; B 2018-19</b>	
<b>No. of Schools Implemented</b>	<b>Current Enrolment</b>	<b>No. of Schools Implemented</b>	<b>Current Enrolment</b>
21	1937	22	3360

## **Observations**

1. The UT needs to update data on PMS as enrolment data on PMS not matching the data provided in AWP & B.
2. The admissions in class 9<sup>th</sup> in the coming academic year should be taken in the NSQF compliant job roles and 2 year pattern may be followed.
3. The total funds approved by PAB 2018 – 19 for vocational education were Rs. 362.24 Lakhs. The state has reported expenditure of Rs. 237.33 Lakhs.
4. Tools & Equipment have been completely procured in the UT.
5. UT has not reported field visit in 14 schools, only 1 day field visit is reported in 2 schools, 3-6 days field visit is reported in 6 schools for IT/ITeS sector. No field visit reported in 2 schools for retail sector, 2-4 field visits are reported in 14 schools and 6-9 field visits in 4 schools for Automotive, retail and security
6. No On-the-Job training is reported in 4 school of IT/ITeS sector. However, in 8 schools On-the-Job training conducted is less than 80 Hrs
7. State has reported that 44 trainers (2 trainers per school) have been engaged in the schools for vocational education @Rs. 20,000/- per trainer.
8. The reported placement for the previous session is 2 students in the Industry. 127 Students opted Higher Education other than Vocational.
9. The state is advised to develop a robust planning and monitoring mechanism at district level.

## **Proposal 2019 – 20**

In the Annual Work Plan & Budget 2018-19 of Samagra Shiksha, the state has proposed 60 schools for introduction of vocational education from class 9<sup>th</sup> :

## **Observations**

- In the proposal 3 schools are found duplicate, remaining 57 schools are Government schools.
- Out of 57 schools 53 schools are found composite schools having classes from 9<sup>th</sup> to 12<sup>th</sup>. Out of these 43 schools have good enrolment of more than 190 students in class 9<sup>th</sup>.
- Financial support for trainers may be recommended for 9 months as the hiring of trainers is yet to taken up.
- Recurring support may be recommended as per norms for class 9 with single sector.

## Recommendation

- PAB may consider approving Recurring costs amounting to **Rs. 402.98 Lakhs** for existing 31 Schools. Detailed costing is at **Annexure 1**.
- PAB may also consider approving Recurring cost amounting to **Rs. 159.32 Lakhs** for introduction of VE in 43 schools (**Annexure 2**). Detailed costing is at **Annexure 3**.

## Costing of TSG

Rs. in Lakh

State Name:Delhi and Year:2019-2020

Major Component	Sub Component	Particulars	Proposal			Recommendation			Remarks	
			Physical	Unit Cost	Financial	Physical	Unit Cost	Financial		
Vocational Education	Introduction of Vocational Education at Secondary and higher Secondary	163	Recurring Support VE - New							
		163.a	Financial Support for Vocational Teacher/ Trainer	60	3	180	43	1.98	85.14	Recommended for 43 schools with single sector
		163.b	Financial Support for Resource Persons (New)	60	1.25	75	43	0.3125	13.4375	Recommended for class 9th
		163.c	Raw material Grant for new school per course (New)	60	2.25	135	43	0.5625	24.1875	Recommended for class 9th
		163.d	Cost of providing Hands on Skill Training to Students	60	1.2	72	43	0.3	12.9	Recommended for class 9th
		163.f	Office Expenses /	60	2	120	43	0.5	21.5	Recommended for class 9th
		163.g	Induction training of Teachers VE - Teachers (10 Days)	60	0.05	3	43	0.05	2.15	10 Days training for 43 trainers @Rs. 500 per day per trainer
			<b>Total of Recurring Support VE - New</b>			<b>585</b>			<b>159.32</b>	
		165	Recurring Support VE - Existing							
		165.	Internship for Higher secondary students	598	0.009	5.382	598	0.0075	4.485	Recommended for supporting the states internship programme
		165.a	Financial Support for Vocational Teacher/ Trainer (Existing)	93	3	279	51	2.64	134.64	Recommended for 51 (44 old+ 7 new trainers (2 trainers per school) @ Rs. 22,000/- per trainer.
		165.b	Financial Support for Resource Persons (Existing)	22	2.5	55	22	2.5	55	Recommended for 22 existing schools for class 9th to 12th
		165.c	Raw material grant for new school per course (Existing)	22	4.5	99	22	4.5	99	Recommended for classes 9th-12th



165.d	Cost of providing Hands Training Students (Existing)	22	2.4	52.8	22	2.4	52.8	Recommended for classes 9th-12th
165.e	Assessment and Certification Cost (Existing)	1976	0.006	11.856	1398	0.006	8.388	Recommended for student of class 10th and 12th
165.f	Office Expenses / Contingencies for School	22	2	44	22	2	44	Recommended for classes 9th-12th
165.g	Induction training of VE - Teachers (10 Days) - (Existing)	49	0.05	2.45	7	0.05	0.35	Recommended for 7 new trainers for 10 days @Rs 500 per day
165.h	In-service Training of VE - Teachers (5 - Days) - (Existing)	93	0.025	2.325	44	0.025	1.1	Recommended for 5 days In-Service Training for 44 trainers @ Rs. 500 per day per trainer.
165.k	Skill Competition	22	0.14637	3.22	22	0.14637	3.22014	Recommended as proposed
Total of Recurring Support VE -				555.03			402.98	
Total of Introduction of Vocational				1140.03			562.3	
Total of Vocational Education				1140.03			562.30	

#### **4. Approval of Plan Approval Board 2019-20**

##### **Vocational Education**

The aim of introducing vocational education in schools is to prepare educated and employable youth. Under vocationalisation of school education vocational courses are introduced along with academic subjects from classes 9 to 12. There is also a provision for providing exposure to vocational education to students of Classes VI to VIII. Under this component, there is greater involvement of industry in design, delivery and assessment of vocational skills.

An estimated cost of 562.30 lakhs was allocated for Introduction of Vocational Education at Secondary and higher Secondary level.

Vocational Education (Secondary): An amount of Rs. 159.32 lakh as per unit cost given below was estimated for support for Vocational Education towards recurring cost for 43 New Schools and an amount of Rs 402.98 towards recurring cost for existing 22 schools. The UT may also refer to the detailed guidelines issued by MHRD for vocational education under Samagra Shiksha. List of schools is attached in Annexure-VII.

(Rs. In lakh)

Activity Master	Physical	Unit Cost	Financial
<b>Recurring Support VE - New</b>			
Financial Support for Vocational Teacher/ Trainer (New)	43	1.98	85.14
Financial Support for Resource Persons (New)	43	0.3125	13.4375
Raw material grant for new school per course (New)	43	0.5625	24.1875
Cost of providing Hands on Skill Training to Students (New)	43	0.3	12.9
Office Expenses / Contingencies for School (New)	43	0.5	21.5

Activity Master	Physical	Unit Cost	Financial
Induction training of VE - Teachers (10 Days)	43	0.05	2.15
<b>Total</b>			<b>159.32</b>

## a) Recurring Support VE-Existing

(Rs. In lakh)

Activity Master	Physical	Unit Cost	Financial
<b>Recurring Support VE - Existing</b>			
Internship for Higher secondary students	598	0.0075	4.485
Financial Support for Vocational Teacher/ Trainer (Existing)	51	2.64	134.64
Financial Support for Resource Persons (Existing)	22	2.5	55
Raw material grant for new school per course (Existing)	22	4.5	99
Cost of providing Hands Training Students (Existing)	22	2.4	52.8
Assessment and Certification Cost (Existing)	1398	0.006	8.388
Office Expenses / Contingencies for School (Existing)	22	2	44
Induction training of VE - Teachers (10 Days) - (Existing)	7	0.05	0.35
In-service Training of VE - Teachers (5 - Days) - (Existing)	44	0.025	1.1
Skill Competition	22	0.14637	3.22014
<b>Total</b>			<b>402.98</b>

**Outcome:** The activities under this intervention would enhance the employability of youth and bridge the divide between the academic & applied learning. This is covered under PCI indicator 1.3.5.

**Monitoring:** Through UDISE +, PGI and various other reports. Further, the UT will report the number of students provided apprenticeship and the number of students placed through the Quarterly Progress Reports and various reports on the PMS portal.

## 5. Costing Sheet of Plan Approval Board

Particulars				Proposal			Final Approved Outlay		
Major Component	Sub Component		Activity Master	Physical	Unit Cost	Financial	Physical	Unit Cost	Financial

Vocational Education	Introduction of Vocational Education at Secondary and higher Secondary	16 6 4		Recurring Support VE - New						
			16 4.a	Financial Support for Vocational Teacher/Trainer (New)	60	3.00000	180	43	1.98000	85.14
			16 4.b	Financial Support for Resource Persons (New)	60	1.25000	75	43	0.31250	13.4375

		16 6 6	16 4.c	Raw material Grant for new school per course (New)	60	2.25000	135	43	0.56250	24.1875	
			16 4.d	Cost of providing Hands on Skill Training to Students (New)	60	1.20000	72	43	0.30000	12.9	
			16 4.f	Office Expenses / Contingencies for New School (New)	60	2.00000	120	43	0.50000	21.5	
			16 4.g	Induction training of Teachers VE - Teachers (10 Days)	60	0.05000	3	43	0.05000	2.15	
				<b>Total of Recurring Support VE - New</b>					<b>585</b>		<b>159.32</b>
			16 6	Recurring Support VE - Existing							
			16 6	Internship for Higher secondary students	598	0.00900	5.382	598	0.00750	4.485	
			16 6.a	Financial Support for Vocational Teacher/Trainer (Existing)	93	3.00000	279	51	2.64000	134.64	
			16 6.b	Financial Support for Resource Persons (Existing)	22	2.50000	55	22	2.50000	55	

			<b>16 6.c</b>	Raw material grant for new school per course (Existing)	22	4.50000	99	22	4.50000	99
			<b>16 6.d</b>	Cost of providing Hands Training Students (Existing)	22	2.40000	52.8	22	2.40000	52.8
			<b>16 6.e</b>	Assessment and Certification Cost (Existing)	1976	0.00600	11.856	1398	0.00600	8.388
			<b>16 6.f</b>	Office Expenses / Contingencies for School (Existing)	22	2.00000	44	22	2.00000	44
			<b>16 6.g</b>	Induction training of VE - Teachers (10 Days) - (Existing)	49	0.05000	2.45	7	0.05000	0.35
			<b>16 6.h</b>	In-service Training of VE - Teachers (5 - Days) - (Existing)	93	0.02500	2.325	44	0.02500	1.1
			<b>16 6.k</b>	Skill Competition	22	0.14637	3.22	22	0.14637	3.22014
				<b>Total of Recurring Support VE - Existing</b>			<b>555.03</b>			<b>402.98</b>
				<b>Total of Introduction of Vocational Education at Secondary and higher Secondary</b>			<b>1140.03</b>			<b>562.3</b>
				<b>Total for Vocational Education</b>			<b>1140.03</b>			<b>562.30</b>