

Cinjarut Conncil of Vocational Training Candhinagar



1. Name of Course:	Maintenance and Operation of Construction Equipment			
N.C.O. No. for Skills Covered: (Please refer National Classification of Occupations -2004 available on www.dget.nic.in)				

2. Engineering OR Non-engineering: Engineering

3. No. of students per batch: 20 Nos / Batch

4. Duration in Hours.: 420 Hrs

5. Duration in Month: 2.5 Months @ 42 hours/Week

6. Examination Scheme:

No.	Name of Subject	Teaching Hours during full course.	Maximum Marks. (Excluding Sessional)	Minimum Marks required for Passing (Excluding Sessional).	Sessional Marks if any.
Subject-I	Theory	60 Hrs	100	40	NA
Subject-2	Practical	360 Hrs.	300	180	NA
Subject-3					
Subject-4					
Subject-5					

7. Entry qualification for Trainee:

Minimum entry qualification (Essential):	Minimum 8 th Standard Passed
. Desirable:	10 th Standard Passed

8. Minimum qualification for Trainer:

Minimum qualification (Essential):	Diploma in Mechanical Engineering
Desirable:	







Gandhinagar Gandhinagar



9. Syllabus Committee Member:

Sr. No.	Name	Organization	Designation	Technical Qualification	Experience in Years	Signature
1.	Mr. Ramji Patel	Apollo Inffratech Pvt. Ltd.	DGM(Works)	Diploma Mech.	15	
2.	Mr. Pradip Patel	Apollo Inffratech Pvt. Ltd.	Manager - Design	BE (Mechanical)	14	DIVE
3.	Mr. Jigar Patel	Apollo Inffratech Pvt. Ltd.	Manager – HR	LLB	10	الملك
4	Mr. A. R. Panchal	ITI, Mehsana	Principal	Diploma Mech.	21	6
5	Mr. T. K. Parmar	ITI. Mehsana	AAA(Junior)	Diploma Mech.	20	THE STATE OF THE S

10. Terminal Skills of trainee: (Should be well defined and having reference to NCO):

The trainee, after successful completion of training, will have following skills... Successful candidate would be able to ...

- 1. Can understand the importance of safety during routine work.
- 2. Can perform troubleshooting for self-loading mobile concrete mixer.
- 3. Can operate self loading mobile concrete mixer with required precautions.
- 4. Can perform troubleshooting for CAP machines.
- 5. Can operate CAP machines with required precautions.
- 6. Can perform troubleshooting for fixed form concrete paver.
- 7. Can operate fixed form concrete paver with required precautions.
- 8. Can follow the daily, weekly and monthly instructions as per manual to keep the machine in good condition.
- 9. Can co-ordinate with service engineer for major breakdown and can solve the same with available sources as instructed by service engineer.
- 10. Basic knowledge of hydraulic circuit and its components.
- 11. Can perform troubleshooting for hydraulically operated systems







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I 1. Approximate cost of Tools/ Equipments / Machinery forStarting one batch of the course:

Rupees

Reference Year

Rs. 3, 21, 00,000/-

2015-2016

12. Area required for practical / Workshop for one batch.

4000 Sq. Meter

13. Minimum Power connection required

5 K.W.

14.1 No of items in Standard list of Machinery:

43 Nos.

14.1.1. Page NO: 4 & 5

14.2 No of items in Standard list of Shop outfit:

154 Nos.

14.2.1. Page NO: 6

14.3 No of items in Standard list of Trainee Tool-Kit:

444 Nos

14.3.1. Page NO: 7

14.3 No of items in Standard list of Consumables

As Per Attached Sheet

14.3.1. Page NO: 8

****** FOR OFFICIAL USE ******

Approved by GCVT in Governing Body meeting on

30-12-2015

Syllabus implemented w.e.f. admission session

west session

Revision History

- 1. Revision No...... Revision Date.
- 2. Revision No...... Revision Date.
- 3. Revision No...... Revision Date.



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Standard List of Machinery

For Trade of - Maintenance and operation of construction equipment

Sr. No.	Description of Item with detailed specifications	Item type i.e. Machinery / Equipment OR Shop Outlit OR Trainee Toolkit	Quantity Required per one Batch of Students	Quantity Required per one Batch of Students for Instructor	Total Quantity Requirect (Total of previous two columns)
	Model: 25 FX – Self Loading Transit Mixer.	Machinery	1	()	1
2	Model: 4 TT – Self Loading Transit Mixer.	Machinery	1	()	1
3	Model : CAP 200 - Vertical Precast pipe Making machine	Machinery	1	0	1
4	Model : STP 4500 -Fixed Form Concrete paver	Machinery	i	0	1







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Standard List of Equipment

For Trade of - Maintenance and operation of construction equipmen

Sr. No.	Description of Item with detailed specifications	Item type i.e. Machinery / Equipment OR Shop Outfit OR Trainee Toolkit,	Quantity Required per one Batch of Students	Quantity Required per one Batch of Students for Instructor	Total Quantity Required (Total of previous two columns)
, man	Hydraulic Power Pack	Equipment	05	01	06
2	Test Bench for Hydraulic system	Equipment	05	01	06
3	Hydraulic hoses and fittings	Equipment	05	01	06
-1	Hydraulic cylinder.	Equipment	05	01	06
5	Batch grinder	Equipment	03	***	03
Ó	Torque wrench	Equipment	05	01	06
7	Pneumatic wrench	Equipment	05	Ù1	ÚĞ

Note: We will provide practical training in group of students. Each group will be split in 5 to 6 students.







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Standard List of Shop Outfit

For Trade of - Maintenance and operation of construction equipmetat

Sr. No.	Description of Item with detailed specifications	Item type i.e. Machinery / Equipment OR Shop Outfit OR Trainee Toolkit	Quantity Required per one Batch of Students	Quantity Required per one Batch of Students for Instructor	Total Quantity Required (Total of previous two columns)
1	Safety Hamlet	Shop Outfit	25	03	28
2	Safety Glows	Shop Outfit	25	()3	28
3	Ear plug	Shop Outfit	25	03	28
Ą	Safety Shoes	Shop Outfit	25	03	28
5	Grinding goggles	Shop Outfit	13	01	14
6	Apron	Shop Outfit	25	03	28

Note: We will provide practical training in group of students. Each group will be split in 5 to 6 students.







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Standard List of Tools For Trade of - Maintenance and operation of construction equipment

Sr.	Description of Item with detailed specifications	Item type i.e. Machinery Equipment OR Shop Outfit OR Trainee Toolkit	Quantity Required per one Batch of Students	Quantity Required per one Batch of Students for Instructor	Total Quantity Requirect (Total Officerious) two columns (
1	Grinding Disc.	Tool	12	02	1.4
<u> </u>	Measure taps.	Tool	12	02	14
3	Right angle '	Tool	12	02] . '
1	Level indicators	Tool	06	01	07
5	Plumb	Tool	12	02	14
6	Fix Spanner Sets	Tool	12	02] ‡
7	Ring Spanner Sets	Tool	12	02	14
3	Hammer 500 grams	Tool	12	Ü2	1-!
9	Plier	Tool	12	02	1.4
10	Bench wise	Tool	05	***	05
11	Drill bit	Tool	12	02	14
12	Allen key set	Tool	12	02	1-1-
13	Hack sow with blade	Tool	12	02	[_!
1-4	Round and flat files	Tool	12	02	1
15	Tap set	Tool	12	02	14
16	Hand drill machine	Tool	06	_	06 .
17	Serew Drivers	Tool	12	02	1-!
18	Teflon tap	Tool	100	10	110
19	Loctite ·	Tool	100	10	1.10
20	Multi meter	Tool	()-	01	05
21	Grease gun – 5 Kg	Tool	05	<u>-</u>	0.5

Note: We will provide practical training in group of students. Each group will be split in 5 to 6 students.







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Standard List of Consumables

For Trade of - Maintenance and operation of construction equipment

Sr. No.	Description of Item with detailed specifications	Item type i.e. Machinery / Equipment OR Shop Outfit OR Trainee Toolkit	Quantity Required per one Batch of Students	Quantity Required per one Batch of Students for Instructor	Total Quantity Required (Total of previous two columns)
1	Hydraulie oil	Consumables	300 Ltr	14**	300 Ltr
	Diesel	Consumables	180 Ltr	20 Ltr	200 Lur
3	Grease	Consumables	50 Kg	_	50 Kg
	Engine oil	Consumables	50 Ltr	_	50 Ltr
ż	Gear oil	Consumables	100 Ltr	-	100 Lu
6	Raw materials for practical (Aggregates, sand, cement fly ash, additive)	Consumables	50 Tones	10 tones	60 Tones

Note: These are consumables for the machine and those have long life so those are not required for particular for any instructor.







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Name of Syllabus: Maintenance and Operation of Construction Equipment Sector: Construction

Terminal Competency:

No	Theory	No of Hrs	Practical	No of Hrs
1	Self-loading mobile concrete mixer 1. Brief introduction about the course. 2. Safety Precaution & first Aid. 3. Use, care and maintenance of tools. 4. Introduction to self-loading mobile concrete mixer. 5. Symbols used in the handbook. 6. Identification of manufacturer, machine type and model, nameplate and chassis stamp. 7. Description of the machine. 8. Main parts of the machine and their respective positions. 9. Driver's position. 10. Warranty. 11. Intended uses. 12. Improper use. 13. Noise level. 14. Delivery report. 15. Information on safety. 16. Requirements for the machine operator. 17. Working clothes 18. General safety requirements 19. Accident prevention 20. Fire prevention	1	1. Practice health and safety Familiarize. 2. Select, use, maintain & store-tools, consumables. 3. Personal safety while practical training. 4. Brief introduction of self-loading mobile concrete mixture and its application. 5. Introduction to the hand book and various symbols used in it. 6. Interpretation and importance of symbols. 7. Demonstration of various identification mark like manufacturer name, machine type and model, name plate and chassis stamp. 8. Brief description of machine with details of main parts and their respective positions and driver's position. 9. What is warranty and importance of warranty. 10. Practical demonstration of intended and improper uses of machine. 11. Demonstration for noise level of machine and importance of noise level. 12. Understanding of delivery report.	



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	23. General safety 24. Operating safety 25. Safety during maintenance operations 26. Adhesive safety labels and their position on the machine 27. Meanings of the safety labels 28. Safety device to use for protection during maintenance work.		requirements for machine operators. 14. Dos and don'ts during machine operation and maintenance. 15. Demonstration of accident and fire prevention. 16. Demonstration of safety labels and their positions. 17. Understanding of safety labels.	ताम प्रवास
2	1. Introduction 2. Before climbing onto the machine 3. Climbing into the driver's cab 4. Adjusting the seat 5. Driving and controls 6. Mixer operation control levers 7. Water delivery system 8. Before starting the engine 9. Starting the engine 10. Starting up a cold or warm engine 11. Starting the engine with a reserve battery 12. Disconnecting the battery 13. Checking the efficiency of the parking brake 14. Not in use 15. Moving the machine 16. Machine operating cycle 17. Stopping and parking the machine 18. Handling a machine that has broken down 19. Loading and transporting the machine 20. Transit by road 21. Lengthy periods of inactivity 22. Disposing of the machine 23. ROPS/FOPS structure 24. Seat belt	6 Hours	 Practical introduction about the machine operation. Demonstration of check points before climbing on to the machine and in to the driver's cabin. Demonstration for adjusting the seat as per operator's requirement. Demonstration of driving instructions and understanding of driving controls. Demonstration of mixer operation control levers. Understanding and demonstration of water delivery system. Check points before starting the engine. Demonstration of starting the engine with various methods. Demonstration of disconnecting the battery. Demonstration of checking the efficiency of parking brake. Demonstration of total operating cycle of machine including loading. 	36 Hours
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the material, mixing with proper quantity, movement with load and unloading at proper place. 12. Demonstration of stopping and parking the machine at proper place and position. 13. Demonstration to handle the machine that has broken-down. 14. Demonstration of standard loading practices if the machine needs to be transferred to another site. 15. Lubricants – Hygiene and safety requirements 26. Hygiene 37. Storage 48. Disposal 49. Disposal 50. Spillages 51. First aid 51. Sefeutded maintenance 52. Seheduted maintenance 53. Storage 44. Disposal 55. Spillages 56. First aid 57. Fire 58. Scheduted maintenance 59. Before doing natintenance 59. Before doing natintenance 51. Tires and wheels 51. Tires and wheels 51. Tires and wheels 52. Peagine air filter 53. Cleaning the pre-filter 54. Replacing the main filter cartridge 55. Replacing the safety cartridge 56. Plours 57. Engine cooling system 58. Checking oil level and changing oil 59. Perssure control points in the hydraulic circuits and the material, proper place. 51. Demonstration of stepping and parking the machine at proper place and position. 58. Demonstration of standard loading practices if the machine is importance of lubricants. 59. Understanding of standard storage and disposal practices of various lubricants. 50. Understanding of standard storage and disposal practices of various lubricants. 51. Understanding of standard storage and disposal practices of various lubricants. 51. Understanding of standard storage and disposal practices of various lubricants. 51. Understanding of standard storage and disposal practices of various lubricants. 52. Demonstration of checking the stability of machine. 53. Demonstration and importance of greasing at various points. 54. Understanding of standard storage and disposal practices of various lubricants. 55. Demonstration of checking the stability of machine. 56. Hours 57. Introduction to safety devices und danine process of various lubricants. 58. Demonstration of checking the st			 	शिलम् चलाम
Maintenance Lubricants – Hygiene and safety requirements 2. Hygiene 3. Storage 4. Disposal 5. Spillages 6. First aid 7. Fire 8. Scheduled maintenance 9. Before doing maintenance 10. Safety devices 11. Disconnecting the battery 12. Ensuring that the machine is stable 13. Greasing 14. Diagram of lubrication points 15. Tires and wheels 16. Brakes 17. Engine air filter 18. Cleaning the pre-filter 19. Replacing the main filter cartridge 20. Replacing the safety cartridge 21. Engine cooling system 22. Hydraulic system 23. Checking oil level and changing oil 24. Replacing filters 25. Pressure control points in Cleaning gold condition Checking oil 24. Replacing filters 25. Pressure control points in Cleaning maintain good condition Checking the stability of maintain good condition		25. Lifting the machine	the material, mixing with proper quantity, movement with load and unloading at proper place. 12. Demonstration of stopping and parking the machine at proper place and position. 13. Demonstration to handle the machine that has broken-down. 14. Demonstration of standard loading practices if the	नाशम् बल्क
Maintenance 1. Lubricants – Hygiene and safety requirements 2. Hygiene 3. Storage 4. Disposal 5. Spillages 6. First aid 7. Fire 8. Scheduled maintenance 9. Before doing maintenance 10. Safety devices 11. Disconnecting the battery 12. Ensuring that the machine is stable 13. Greasing 14. Diagram of lubrication points 15. Tires and wheels 16. Brakes 17. Engine air filter 19. Replacing the main filter cartridge 20. Replacing the safety cartridge 21. Engine cooling system 22. Hydraulic system 23. Checking oil level and changing oil 24. Replacing filters 25. Pressure control points in				
the hydrautic circuits and of thes and wheels.	3	 Lubricants – Hygiene and safety requirements Hygiene Storage Disposal Spillages First aid Fire Scheduled maintenance Before doing maintenance Safety devices Disconnecting the battery Ensuring that the machine is stable Greasing Diagram of lubrication points Tires and wheels Brakes Engine air filter Replacing the main filter cartridge Replacing the safety cartridge Engine cooling system Hydraulic system Checking oil level and changing oil Replacing filters Pressure control points in 	 Maintenance and its importance. Introduction to different types of lubricants. Importance of lubricants in our machine. Understanding of hygiene and safety requirement of lubricants. Understanding of standard storage and disposal practices of various lubricants. Understanding and importance of scheduled maintenance. Dos and don'ts before starting any maintenance. Introduction to safety devices used during maintenance. Demonstration of procedure to disconnect the battery. Demonstration of checking the stability of machine. Demonstration and importance of greasing at various points. Standard practices to maintain good condition 	
		the hydraulic circuits and	 of tires and wheels.	

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- their normal values
- 26. Front and rear axles
- 27. Checking and changing the oil in the differential gear
- 28. Checking and changing the oil in the wheel reduction gears
- 29. Checking and changing the oil in the gearbox
- 30. Checking and changing the oil in the drum rotation reduction gear
- 31. Water delivery system
- 32. Cleaning the outside filter
- 33. Washing the drum
- 34. Eliminating solid concrete scraps
- 35. Fuel system
- 36. Type of fuel
- 37. Filling the fuel tank
- 38. Electric system
- 39. Battery
- 40. Fuses and relays
- 41. Light bulbs
- 42. General fuse
- 43. Troubleshooting

- 12. Standard practices to check and maintain brakes.
- 13. Demonstration for standard practices of checking, cleaning and changing engine air filters.
- 14. Understanding of engine cooling and hydraulic system by identifying parts as per circuit diagram.
- , 15. Demonstration to check correct oil level.
- 16. Demonstration of the procedure to change the oil from system.
- 17. Demonstration for standard practices of checking, cleaning and changing hydraulic filters.
- 18. Demonstration to control the pressure at various control points and understanding the correct values of pressure.
- 19. Fitment and application of front and rear axles.
- 20. Demonstration to Check and change the oil in the differential gear
- Demonstration to Check and change the oil in wheel reduction gears.
- 22. Demonstration to Check and change the oil in the gear box.
- 23. Demonstration to Check and change the oil in drum rotation reduction gears.
- 24. Demonstration for operation of water delivery system.
- 25. Demonstration to clean the outside filter.
- 26. Demonstration of washing the drum and elimination of solid concrete without

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***************************************			affecting the drum surface. 27. Demonstration of entire fuel system. 28. Understanding types of
			fuel and their application. 29. Demonstration of filling the fuel in fuel tank.
			30. Demonstration and understanding of entire electric system including battery, fuses, relays,
	,		bulbs. etc. Understanding the circuit diagrams and symbols of the above parts.
	Features, Tables and Diagrams		Understanding of overall dimension, weight and
4.	 Overall sizes and weights Capacities Steering Speed Engine Chassis Axles and gearbox Brakes Loading shovel Drum assembly Chute assembly Mixer operation water pump Water system Electric system Exchanger Table of torque wrench settings for the nuts and bolts Table of tire pressures Table of lubricants Scheduled maintenance timetable Hydraulic system diagrams Diagram of hydraulic drum rotating system Diagram of hydraulic drive system 	6 Hours	capacity of the machine. 2. Understanding the overall features and applications of major parts like engine. steering, axles, gearbox, brakes, loading shovel, drum assembly, chute assembly, mixer operation, exchanger etc. 3. Understanding of water and electric system and physical verification of the same against drawing. 4. Demonstration of torque wrench and study of standard torque table. 5. Demonstration of tier pressure checking as per requirement given in the table. 6. Study for table of lubricants and use of lubricants accordingly. 7. Understanding of scheduled maintenance time table and perform maintenance accordingly. 8. Study of different hydraulic circuit like hydraulic drum rotating
	23. Diagram of hydraulic		system, hydraulie drive

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				and a
	power steering and servo		system, power steering	
	controlled mixer operation		and servo controlled mixer	
	system	1	operation system, parking	
	24. Diagram of hydraulic	-	brake system, etc. and	
	system for parking brake		physical verification of the	
			7 7	
	25. Electric wiring diagram		same against circuit	
			diagram.	
			9. Study of electric wiring	
			diagram and physical	
			verification of the same	
			against circuit diagram.	
	CAP Machine		Basic introduction to CAP	
	f		200 machine and its	
	1. Introduction to CAP 200		application.	
	2. Specification of machine		2. Understanding and	
	3. EU Declaration of		demonstration for	
	Conformity		specification of machine.	
	4. Safety Instructions		3. Demonstration of general	
	5. Safety in general		· · · · · · · · · · · · · · · · · · ·	
			and special safety	
	6. Precautions during mould		instructions during	
	change and demoulding		operation and maintenance	
	7. Precautions during		of the machine.	
	cleaning. maintenance and		4. Demonstration of	
	change of spare parts		precautions to be taken	
	8. Moving about the machine		during mould change and	
	(dangerous zones)		demoulding of machine.	
	9. Noise		5. Demonstration of	
	10. Emergency stop and main		precautions to be taken	
	power disconnect switch		during cleaning, routine	
_	11. Hooking on lifting eyes	6	maintenance and change 36	
5	12. Use of lifting yoke for	Hours		·s
	outer mould		6. Introduction and effect of	
	13. Technical data.		noise level.	
	maintenance and		7. Demonstration of	
	adjustment		emergency stop of	
	14. Concrete feeder		machine.	
	15. Technical data			
			8. Application of lifting eye	
	16. Adjustment and		and lifting yoke for outer	
	maintenance,		mould.	
	17. Core suspension		9. Demonstration of concrete	
	18. Core vibrator		feeder with its detail	
	19. Description		technical data,	
İ	20. Technical data		adjustments and	
	21. Dismounting/mounting of		maintenance.	
ļ	vibrator from the core		10. Application of core	
	22. Setting of stroke		suspension and core	
	23. Instructive settings of		vibrator with detail	
or summerous	stroke for the vibrator		technical data.	$\sigma_{i,j} \chi$
	gardies for the vitation	<u> </u>	1 Continent Gutt.	



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	24. Trouble shooting diagram		11. Precautions to be taken	
	for vibrator		during	4
	25. Lubrication system		Dismounting/mounting of	
	26. Maintenance and	-	vibrator from the core.	
	lubrication		12. Demonstration for	
	27. Swivel arm with		Dismounting/mounting of	
	pressing/rocking device		vibrator from the core	
	28. Hydraulic pump		13. Demonstration for stroke	
	29. Lifting yoke for pipe		setting of vibrators.	
	moulds		14. Demonstration for trouble	
	30. Pallet lock		shooting diagram for	
	31. Guidelines for tightening		vibrator.	
	, bolt connections		15. Demonstration and	
	32. Bolt connections quality		importance of lubrication	
	8.8		system.	
	33. Hydraulic connections		16. Introduction of routine	
	34. Lubrication		maintenance and	
	35. Lubrication point number		lubrication points.	
	*		17. Application of Swivel arm	
			with pressing/rocking	
			device.	
			18. Introduction and	
			demonstration of entire	
			hydraulic system with	
			respect to hydraulic circuit	
			diagrams.	
			19. Introduction to pallet	
			locking system.	
			20. Guide line for torque	
			tightening of standard and	
			special nut-bolts.	
	1. Mould parts		1. Demonstration of various	
	2. Initial mounting of mould		mould parts.	
	equipment		2. Demonstration for	
	3. Change of mould		mounting procedure of	
į	equipment from one		mould equipment.	
Ì	dimension to another		3. Procedure to change of	
	4. Daily cleaning		mould equipment as per	
	5. General cleaning	_	pipe diameter	
1	6. Adjustment Charts	6	requirement.	36
	7. Control panel on the	Hours	4. Introduction to general	Hours
	swivel arm		cleaning areas.	
	8. Control panel on the front		5. Understanding of	
	of the concrete feeder		adjustment chats and	
	9. Electric panel at the floor		demonstration of various	
	10. Settings/adjustments		adjustment points.	
	during operation		6. Introduction for function	
	11. Operation sequence during		of various control panels	Commence of the second
	11. Operation sequence during		or various courror paners	

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a production eyele (Single costing station) 12. Troubleshooting 13. Troubleshooting guide for the machine 14. Purpose of the information in the manual 15. Intended user of the manual 16. Instruction manual limitations 17. Machine Handling 18. Safety symbols 19. Hazard symbols 10. General safety 11. Technical Specifications 12. Overall Dimensions 13. Features 13. Features 14. Purpose of the information in the manual 25. Instruction for lifting and moving machine 26. Safety symbols 27. Safety Instructions 28. Safety symbols 39. Hazard symbols 10. General safety 11. Technical Specifications 12. Overall Dimensions 13. Features 14. Purpose of the information in the manual limitations 15. Machine Handling 16. Instruction for lifting and moving machine from one site to another. 17. Capture of the manual limitations 18. Safety symbols 19. Hazard symbols 10. General safety 11. Technical Specifications 12. Overall Dimensions 13. Features 14. Purpose of the information in the manual limitations 15. Machine Handling 16. Instruction for lifting and moving machine from one site to another. 18. Demonstration of operation of major problems occurred during operation. 19. Brief introduction about fixed form concrete paver and its application. 20. Introduction to the user manual and its importance. 31. Introduction to machine handling procedure and its demonstration of standard practices for lifting and moving machine from one site to another. 4. Demonstration of standard practices for lifting and moving machine from one site to another. 5. Demonstration of the user manual and its importance. 6. Hours 6. Introduction to machine handling procedure and its demonstration of standard practices for lifting and moving machine from one site to another. 5. Demonstration of standard practices for lifting and moving machine from one site to another. 6. Understanding of safety and hozard symbols. 7. Understanding of overall dimensions and detail features for each motor of the section of all models and its importance.					4 8 4	PUS
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13. Troubleshooting guide for the machine 7. Demonstration of settings/adjustment which required during operation for all these control panels. 8. Demonstration of operation sequence during production cycle and understanding for importance, of each sequence. 9. Understanding of trouble shooting guide and demonstration for iroubleshooting of major problems occurred during operation. 1. Purpose of the information in the manual 2. Intended user of the manual 3. Instruction manual limitations 4. How to preserve the manual 5. Machine Handling 6. Instruction for lifting and moving machine 7. Safety Instructions 8. Safety symbols 9. Hazard symbols 10. General safety 11. Technical Specifications 12. Overall Dimensions 13. Features 14. Pentures 15. Demonstration of safety instructions to be followed during operation. 16. Understanding of safety and hazard symbols. 17. Demonstration of safety instructions to be followed during operation. 18. Instruction for lifting and moving machine from one site to another. 19. Demonstration of safety instructions to be followed during operation. 10. Understanding of safety and hazard symbols. 11. Understanding of safety and hazard symbols. 12. Overall Dimensions 13. Features 13. Features 14. How to preserve the manual limited form concrete paver and its application. 15. Demonstration of standard practices for lifting and moving machine from one site to another. 16. Demonstration of safety and hazard symbols. 17. Understanding of safety and hazard symbols. 18. Peatures 19. Understanding of safety and hazard symbols. 19. Understanding of oterall dimensions and detail features for each model.		casting station)			concrete feeder, at floor	100
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Fixed Form Paver Assembly Purpose Function Parts Illustration Drive Unit Parts Illustration Screw jack with Tires Drive Tubes	Assembly 2. Purpose 3. Function 4. Pans (liberration 5. Drive Unit 6. Paver Frame 7. Commol Unit 8. Screw jack with Tires 9. Drive Tube 11. Rail and Bracker 12. Operating Instructions 13. Pre-operation Checklist 14. Maintenance Instructions 15. Electric Circuit Diagram 6. Hours 7. Commol Unit 8. Screw jack with Tires 9. Drive Tubes 10. Surike Tube 11. Rail and Bracker 12. Operating Instructions 13. Pre-operation Checklist 14. Maintenance Instructions 15. Electric Circuit Diagram 6. Hours 7. Understanding of operation check-list and demonstration of die same. 8. Understanding of pre-operation check-list and demonstration of each point to be checked before starting the machine. 9. Understanding of electric circuit against the drawing. 9. Product Overview 1. Mobile Concrete Batching Plant. 9. Stationary Concrete Batching Plant. 9. Customer Feedback Form Notes. 9. Understanding of	*4000			SEINE 2
Product Overview 1. Mobile Concrete Batching Plant. 2. Stationary Concrete Batching Plant. 3. Transit Mixer 4. Concrete Pump 5. Customer Feedback Form Notes. 1. Product overview and understanding for application of Mobile Concrete Batching Plant. Stationary Concrete Batching Plant. Transit Mixer and Concrete Pump, 2. Understanding of important notes (Dos & Don'ts) during operation. 10 Theory Revision for all for 1. Product overview and understanding for application of Mobile Concrete Batching Plant. Stationary Conc	Product Overview 1. Mobile Concrete Batching Plant. 2. Stationary Concrete Batching Plant. Batching Plant. Batching Plant. Batching Plant. Concrete Batching Plant. Stationary Concrete Batching Plant. Transit Hours Hours Mixer and Concrete Pump. Customer Feedback Form Notes. 2. Understanding of	S	Assembly 2. Purpose 3. Function 4. Parts Illustration 5. Drive Unit 6. Paver Frame 7. Control Unit 8. Screw jack with Tires 9. Drive Tubes 10. Strike Tube 11. Rail and Bracket 12. Operating Instructions 13. Pre-operation Checklist 14. Maintenance Instructions	 application of the machine. 2. Introduction to machine assembly and its different parts. 3. Demonstration for the function of different parts like drive unit, paver frame, control unit, screw jack with tires, drive tube, strike tube, rail, bracket, etc. 4. Understanding of operating instruction and brief demonstration of the same. 5. Understanding of preoperation check-list and demonstration of each point to be checked before starting the machine. 6. Understanding of maintenance instructions and demonstration of preventive maintenance and major troubleshooting during operation. 7. Understanding of electric circuit diagram and physical verification of circuit against the	36 Hours
Theory Revision for all for 6 Practical Revision for all four 36	Don'ts) during operation.	9	1. Mobile Concrete Batching Plant. 2. Stationary Concrete Batching Plant. 3. Transit Mixer 4. Concrete Pump 5. Customer Feedback Form Notes.	 understanding for application of Mobile Concrete Batching Plant. Stationary Concrete Batching Plant. Transit Mixer and Concrete Pump. 2. Understanding of important notes (Dos &	1
	Theory Revision for all for 6 Practical Revision for all four 36	10	•	Practical Revision for all four	36 Hours







Chujarat Courtel of Vocational Braining



		कांशतम् च्रह्म
TOTAL HOURS	60 hrs	360 hrs

Signature:

Name

- 1. Mr. Ramji Patel DGM Works
- 2. Mr. Pradip Patel Manager Design
- 3. Mr. Jigar Patel Manager HR
- 4. Mr. A.R.Panchal Principal (Mehsana)
- 5. Mr. T. K. Parmar AAA (Junior)

Sign

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