

मुंबई विद्यापीठ



No. Aff./ICC/ (2022-23)/ 03 / of 2022


परिपत्रकः

विषयः— Green Campus बाबत मार्गदर्शक सुचना.

उपरोक्त विषयान्वये मुंबई विद्यापीठाशी संलग्नीत सर्व शासकीय/ अशासकिय, अनुदानित, विनाअनुदानित, कायमविनाअनुदानित महाविद्यालयांचे प्राचार्य, संस्थाचे संचालक यांना वरील परिपत्रकाद्वारे कळविण्यात येते की, पर्यावरण संरक्षणाच्या दृष्टीने महाराष्ट्र राज्यात प्रत्येक महाविद्यालयांनी त्यांचा Campus Green बनवण्याचे प्रयत्न करणे अपेक्षित असून यामध्ये पाणी, सांडपाणी, घनकचरा, ई-वेस्ट, प्रयोगशाळा, कचरा, वायु प्रदुषण, प्रासंगिक प्रदुषण, वृक्षारोपण, वनस्पती व जीवजंतुंचे संरक्षण इ. गोष्टींचा अंतर्भाव राहिल. या कार्यक्रमाच्या अंमलबजावणीसाठी उपयोगी पडेल अशा कार्यपध्दती बाबतची मार्गदर्शक तत्वे सोबत पाठवलेली आहेत.

तरी सोबत जोडलेल्या मार्गदर्शक पत्राच्या अनुषंगाने सर्व महाविद्यालयांनी सोबत जोडलेल्या मार्गदर्शक तत्वांची अंमलबजावणी करावी. (प्रत संलग्न)

मुंबई-४०० ०३२
२६ मे, २०२२
दिनांक २६ वैशाख, शके १९४४


(सुधिर पुराणिक)
कुलसचिव

मुंबई विद्यापीठाशी संलग्नीत सर्व शासकीय, अशासकिय, अनुदानित, विनाअनुदानित, कायमविनाअनुदानित महाविद्यालयांचे प्राचार्य, संस्थाचे संचालक

महाराष्ट्र शासन

शिक्षण संचालनालय, (उच्च शिक्षण)

महाराष्ट्र राज्य, मध्यवर्ती इमारत, पुणे-४११ ००१

Web: www.dhepune.gov.in

Email: prash.dhepune@gov.in

फोन नं. ०२०/२६१२२११९, २६०५१५१२, २६१३०६२७, २६१२४६३९

क्रमांक. उशिस-२०२२/संकोण/मवि-१/४९२९

दिनांक २०/०४/२०२२

20 APR 2022

प्रति,

१. सर्व विभागीय सहसंचालक ,
उच्च शिक्षण.
२. कुलसचिव,
सर्व अकृषि विद्यापीठे.

विषय:- Green campus बाबत मार्गदर्शक सूचना..

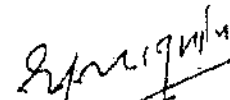
संदर्भ:- श्री. विकास चंद्र रस्तोगी, (भा.प्र.से) मा. प्रधान सचिव यांचे दिनांक ५/४/२०२२ रोजीचे अर्धशासकीय पत्र.

उपरोक्त विषयी संदर्भीय अर्धशासकीय पत्राच्या अनुषंगाने कळविण्यात येते की, पर्यावरण संरक्षणाच्या दृष्टीने महाराष्ट्र राज्यात प्रत्येक महाविद्यालय / विद्यापीठे यांनी त्यांचा Campus "Green" बनवण्याचे प्रयत्न करणे अपेक्षित असून यामध्ये पाणी, सांडपाणी, घनकचरा, ई-वेस्ट, प्रयोगशाळा कचरा, वायु प्रदूषण, प्रासंगिक प्रदूषणे, वृक्षरोपण, वनस्पती व जीवजंतुंचे संरक्षण इ. गोष्टींचा अंतर्भाव राहिल. या सर्व बाबींबद्दल टप्पानिहाय (पहिला टप्पा ०९ महिना व दुसरा टप्पा ०९ ते ११ महिने) हे उपक्रम हाती घेता येतील, असे मा.प्रधान सचिव महोदयांनी संदर्भीय अर्धशासकीय पत्रान्वये कळवून या कार्यक्रमाच्या अंमलबजावणीसाठी उपयोगी पडेल अशा कार्यपध्दती बाबतची मार्गदर्शक तत्त्वे सोबत पाठवलेली आहे.

तरी संदर्भीय अर्धशासकीय पत्राच्या अनुषंगाने आपल्या अधिनस्त महाविद्यालय / विद्यापीठे यांना सदरहू प्रकरण संबंधित मार्गदर्शक तत्त्वांची अंमलबजावणी करून आणि विभागनिहाय बैठक घेऊन त्यांना सदरहू कार्यक्रमाची माहिती द्यावी व केलेल्या कार्यवाहीचा अहवाल दिनांक २९/०४/२०२२ पर्यंत सादर करावा. सदरहू प्रकरणी सर्व विभागीय सहसंचालक यांच्यासोबत संचालनालय स्तरावर लवकरच बैठक आयोजित करण्यात येणार असून बैठकीची तारीख व वेळ यथावकाश कळविण्यात येईल.

सदरहू प्रकरणी अधिक माहितीसाठी डॉ. प्रमोद फाब्रेकर, वरिष्ठ सल्लागार, राष्ट्रीय उच्चतर शिक्षा अभियान (रुसा) मुंबई यांना ईमेल आयडी-tsgrusamahar@gmail.com वर संपर्क करता येईल.

सोबत - संदर्भीय अर्धशासकीय पत्र व Green campus मार्गदर्शक तत्त्वे.



(डॉ. धनराज माने)

शिक्षण संचालक (उच्च शिक्षण)

महाराष्ट्र राज्य, पुणे-१

प्रत-माहितीस्तव सविनय सादर.

१. मा.प्रधान सचिव, उच्च व तंत्र शिक्षण विभाग, मंत्रालय विस्तार भवन, मुंबई-३२.

२. मा.राज्य प्रकल्प संचालक, राष्ट्रीय उच्चतर शिक्षा अभियान (रुसा), सेंटर १, युनिट नं. २,

१८ वा मजला, जागतिक व्यापार केंद्र (WTC) कफ परेड, कुलाबा, मुंबई-४०० ००५.

महाराष्ट्र शासन

विकास चंद्र रस्तोगी, मा.प्र.से.

क्र. राप्रसं/रुसा/२०२२-२३/२०७

उच्च व तंत्रशिक्षण विभाग

४०९, मंत्रालय, विस्तार भवन,

हुतात्मा राजगुरु चौक, मादाम काम मार्ग,

मुंबई ४०० ०३२.

Tel: 22025301

Email: psec.higheredu@maharashtra.gov.in

दिनांक ५ एप्रिल, २०२२

प्रति,

१. संचालक,
उच्च शिक्षण,
पुणे.
२. संचालक,
तंत्र शिक्षण,
मुंबई.

विषय: Green Campus बाबत मार्गदर्शक सूचना

पर्यावरण संरक्षणाच्या दृष्टीने महाराष्ट्र राज्यात प्रत्येक महाविद्यालय / विद्यापीठे यांनी त्यांचा Campus "Green" बनवण्याचे प्रयत्न करणे अपेक्षित आहे. यामध्ये पाणी, सांडपाणी, घनकचरा, ई-वेस्ट, प्रयोगशाळा कचरा, वायु प्रदुषण, प्रासंगिक प्रदुषण, वृक्षरोपण, वनस्पती व जीवजंतूंचे संरक्षण इ. गोष्टींचा अंतर्भाव राहिल. या सर्व बाबींवर टप्प्यानिहाय (पहिला टप्पा ०९ महिना व दुसऱ्या टप्प्या ०९ ते ११ महिने) हे उपक्रम हाती घेता येतील.

२. या कार्यक्रमाच्या अंमलबजावणीसाठी उपयोगी पडेल अशा कार्यपद्धती बाबतची मार्गदर्शक तत्त्वे सोबत पाठविण्यात येत आहे.

३. आपल्या अधिनस्त महाविद्यालय/ विद्यापीठे यांना या मार्गदर्शक तत्त्वांची अंमलबजावणी करण्यासाठी कृपया कळवावे आणि विभागनिहाय बैठक घेऊन त्यांना ह्याची माहिती द्यावी. या संदर्भात अधिक माहितीसाठी डॉ.

प्रमोद पात्रेकर, वरिष्ठ सल्लागार, राष्ट्रीय उच्चतर शिक्षा अभियान (रुसा), मुंबई यांना (ईमेल आयडी-

tsrusamah4@gmail.com) संपर्क करता येईल.

सोबत :- Green Campus- मार्गदर्शक तत्त्वे.

आपला विश्वासू,

(विकासचंद्र रस्तोगी)

Guidelines for Green Campuses

Work Components		Phase 1: Short Term (3 - 18 months)	Phase 2: Long Term (3 - 18 months)
Water & Wastewater			
1.1	Drinking Water Supply	Metering of water consumption at activity level (especially in water intensive activities such as gardening, cleanliness & hygiene, domestic usage, cooling systems (HVAC), laboratories, etc). Periodic inspection of plumbing units.	Developing long term goals and increasing awareness towards minimal water usage. Xeriscaping of Gardens to reduce water consumption
1.2	Borewell, Dugwell & Tanker Water	Metering of water consumption at activity level (especially in water intensive activities such as gardening, cleanliness & hygiene, domestic usage, cooling systems (HVAC), laboratories, etc). Periodic inspection of plumbing units.	Developing long term goals and increasing awareness towards minimal water usage. Xeriscaping of Gardens to reduce water consumption
1.3	Rainwater Harvesting	Development of storage structures and redirecting the storm water tracks to collect rainwater	Development of rooftop rainwater structures at buildings
1.4	Domestic Wastewater (Sewage)	Treatment of wastewater before discharge Reuse of treated wastewater	Tertiary treatment of wastewater to reduce discharge and reuse it for more water related activities such as non-potable water activities such as toilet flushing
1.5	Overhead Tank Cleanliness & Maintenance	Setting up of cleaning routine of all overhead tanks and implementing it	Interconnecting, replacing and reorganising water supply within each building as well as implementing master plan for modernisation of water supply and wastewater collection, treatment and reuse
1.6	Sanitation & Hygiene	<ul style="list-style-type: none"> - Toilets and Bathrooms - Sinks and Handwash Basins - Kitchens and Cafeterias - Water Coolers and Water Fountains - Water collection trays below Air Conditioners and Air Coolers - Odour Control (Indoor & Outdoor) 	<ul style="list-style-type: none"> - Water saving showers and flushes. Modernisation of sewage pipes and leakproofing - Automated taps. Modernisation of plumbing to avoid leakages in concealed plumbing
1.7	Water Audit	Phase 1 Audit: Conducting a detailed water audit to understand the quantities of various uses of water across the campus. Also, collect drinking water samples from overhead tanks and wastewater samples from final discharge well (once a month from each location)	Phase 2 Audit: Based on the findings of Phase 1 Water Audit, identify the key improvement areas where minimisation can be done. Also, collect drinking water samples from overhead tanks and wastewater samples from final discharge well (once a month from each location)
2. Solid Waste			
2.1	Wet/Biodegradable Solid Waste	Minimization of food waste through improving preparation and storage practices (taking prior orders before preparation, limiting things on the menu per day, maintaining a grocery management system to avoid reordering/ extra groceries which can lead to spoil vegetables, maintaining a cold storage to avoid spoilage, donation of extra food / meals to charity, providing multiple portion sizes)	Promoting on-campus composting of waste to avoid waste disposal
2.2	Dry Recyclable Paper Waste	Proper segregation of paper waste from other types of waste(waste bins around the campus dedicated for paper), disposal of paper through a common compost facility Adequate storage space for recyclable waste should be maintained	Student committee dedicated to recyclable waste management can be formed
2.3	Dry Recyclable Plastic Waste	Avoiding usage of plastic like eco friendly bags, reusable/ biodegradable glasses and plates, proper segregation of plastic waste at source, (waste bins around the campus dedicated for plastic) Adequate storage space for recyclable waste should be maintained	Student committee dedicated to recyclable waste management can be formed
2.4	Dry Recyclable Glass Waste	Increase usage of reusable glasses around the campus, Proper segregation and disposal of glass waste at source (waste bins around the campus dedicated for glass) Adequate storage space for recyclable waste should be maintained	Student committee dedicated to recyclable waste management can be formed

		Waste Biomass (from Gardens)	Promoting on-campus composting of waste to avoid waste disposal.	Installation of biogas plant for electricity or fuel gas (Fuel for Campus Vehicles)
		Water Audit	Phase 1 Audit: Conducting a detailed water audit to understand the quantities of various uses of water across the campus	Phase 2 Audit: Based on the findings of Phase 1 Water Audit, identify the key improvement areas where minimisation can be done
3		E-Waste & Laboratory Waste		
	3.1	Electronic Waste (E-Waste)	Bulbs, tubes, battery (dry cell), to be segregated and disposed to designated E-waste disposing vendors, Introduction of a computer re-use program (donation to community groups)	Reducing computer replacements through hardware upgrades in old computers to support updated softwares
	3.2	Discarded Chemicals	Substitution of hazardous chemicals and materials used in research work with less hazardous or non-toxic materials, Reducing usage of hazardous chemicals, Secure storage of hazardous discarded chemicals for disposal	Integration of an chemical management system to avoid re-orders of chemicals
	3.3	Discarded Glassware	Proper segregation in secure storage spaces and disposal of glassware used in laboratories for chemical storage (to be kept in a safe spot and tagged as hazardous)	Developing a lab equipment exchange program to avoid wastage
4		Air Pollution & Air Quality		
	4.1	Transportation	Encouraging pooling of vehicles (shuttle bus services), Availability of bicycles/ e-bikes for internal commutation, Phasing out old inefficient vehicles, Restriction on number of public transport entering the premises	Increasing usage of biogas for internal vehicles, Converting intra campus buses/ vehicles to electronic/ battery operated buses/ vehicles
	4.2	Construction	Environmental Audits and EIA to be performed before any construction projects, Avoiding any construction activities during night time, Disposal of dabs, sediment, etc through construction activities to be monitored for emissions	Devise an Energy Management Policy including guidelines towards construction activities, Promoting usage of machinery consuming low emission fuels
	4.3	Noise Pollution	No Noise at night (banned during 10:00 pm to 6:00 am), Ban use of horns inside the premises and have dedicated pathway for vehicular transportation	Distributed sound system during any public festivals, Setting up noise limit during day hours
5		Episodic Pollution		
	5.1	College Elections	Distributed sound systems, usage of digital methods instead of physical leaflets, etc. for campaigning, minimal usage of posters to avoid wastage, Ban on usage of fire crackers	The selection process should include extra points for green campaigning
	5.2	Religious Festivals	Ban on usage of fire crackers (which harm the environment such as rockets, bombs, etc), Ban on use of single use plastic, Usage of decorations made from eco-friendly / recyclable/ recycled materials, Replacing plastic glasses, plates, etc with recyclable material	Promotion of eco-friendly methods towards Ganesh and Durga idol immersion, Nirmalya immersion, etc. (using ecofriendly idols, artificial ponds to avoid immersion in natural waterbodies, etc)
	5.3	Cultural Events & Gatherings	Ban on use of single use plastic, Usage of decorations made from eco-friendly / recyclable/ recycled materials, Replacing plastic glasses, plates, etc with recyclable material	Organising events towards environmental benefits/ promoting sustainable culture such as tree plantation drives
	5.4	Holi	Promoting Dry Holi across the campus, Restriction on any water intensive activities on account of the festival	Promoting natural colours instead of artificial colours to avoid any harsh chemicals mixing with the water/ soil
6		Ecology and Green Cover		
	6.1	Census & Ecosystem Assessments	Identifying and documenting the number of species and their habitats around the campus (such as waterbodies, etc)	Conducting periodic Environmental Impact Assessments and conducting biodiversity assessment studies

	Conservation of Flora and Fauna	Habitat preservation to be carried out to protecting the flora and fauna around the campus (ban on any new construction activities that may affect any rare species),	Setting up boards/ posters of the identified species to increase awareness and importance. Promoting horticulture across the campus
6.3	Tree Plantation Drive	Conducting periodic tree maintenance and plantation drives, Maintaining equal distribution of green cover across the campus	Maintaining a minimum of 33% green cover across the used campus area Promoting plantation of local variety of trees and plants inside the campus
6.4	Conservation of Water Bodies & Ecosystem on Banks	Ban any pollution / wastewater discharge to the waterbodies or at banks	Setting up boards / posters of the identified species to increase awareness and importance
6.5	Special & Flagship Projects		Undertaking beautification of campus by developing Butterfly Sanctuary, Snake Park, Japanese Gardens, Rock Garden, etc.
7	Awareness & Capacity Building for Sustainable Living		
7.1	Sustainable Initiatives	Developing initiatives / programmes on waste management, water management, recycling, ecology, etc. in the campus which require student participation	Develop a sustainability/ Green Campus committee to look after the students' contribution in maintaining sustainable living
7.2	Student Behaviour for Sustainable Livelihood	Conducting awareness workshops on waste management, water management, recycling, ecology, etc. in the campus for the students	Include Green campus initiatives into the curriculum as a graded / credited subject

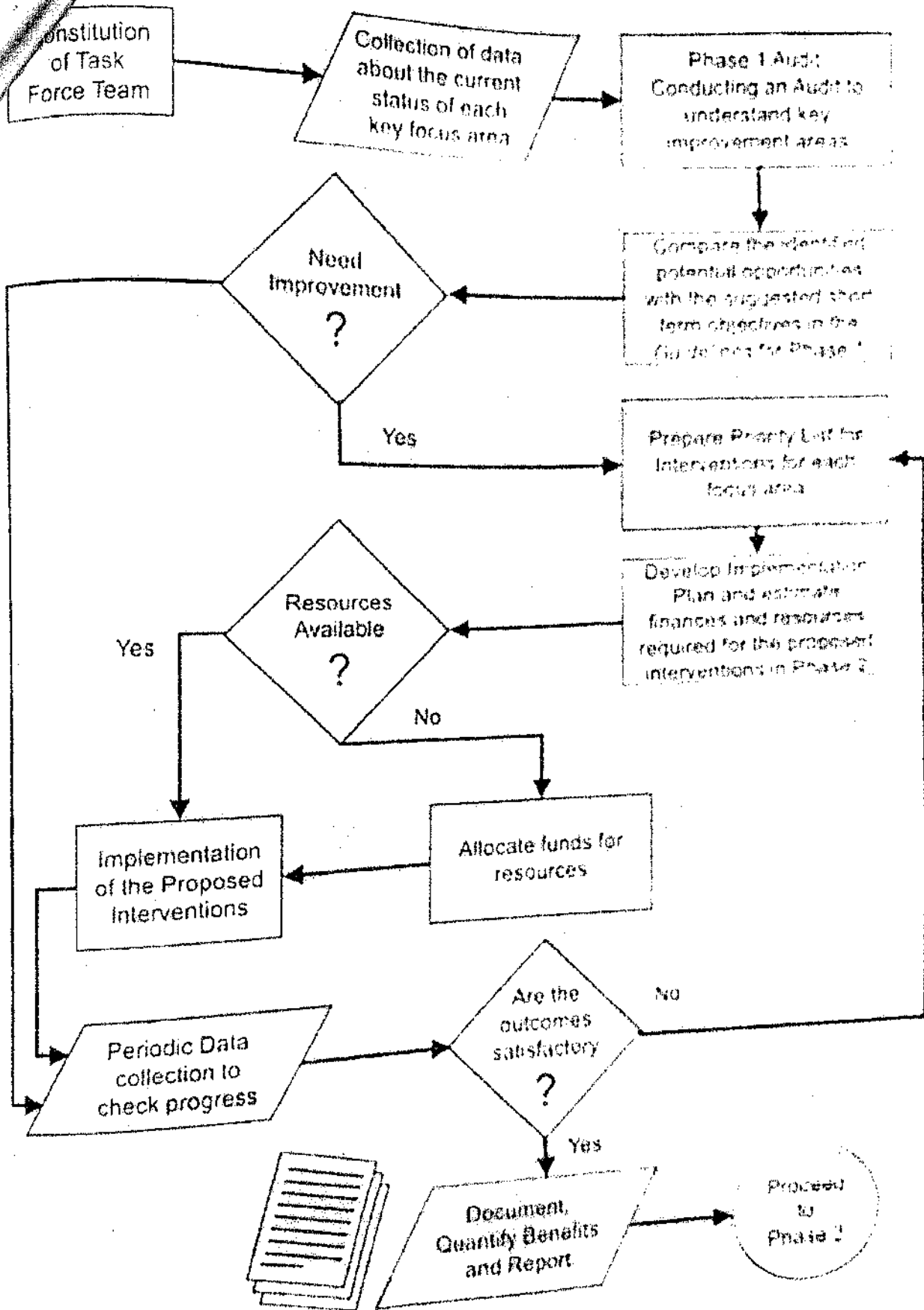


Figure 1: Work-Flow Diagram for Implementing Phase 1

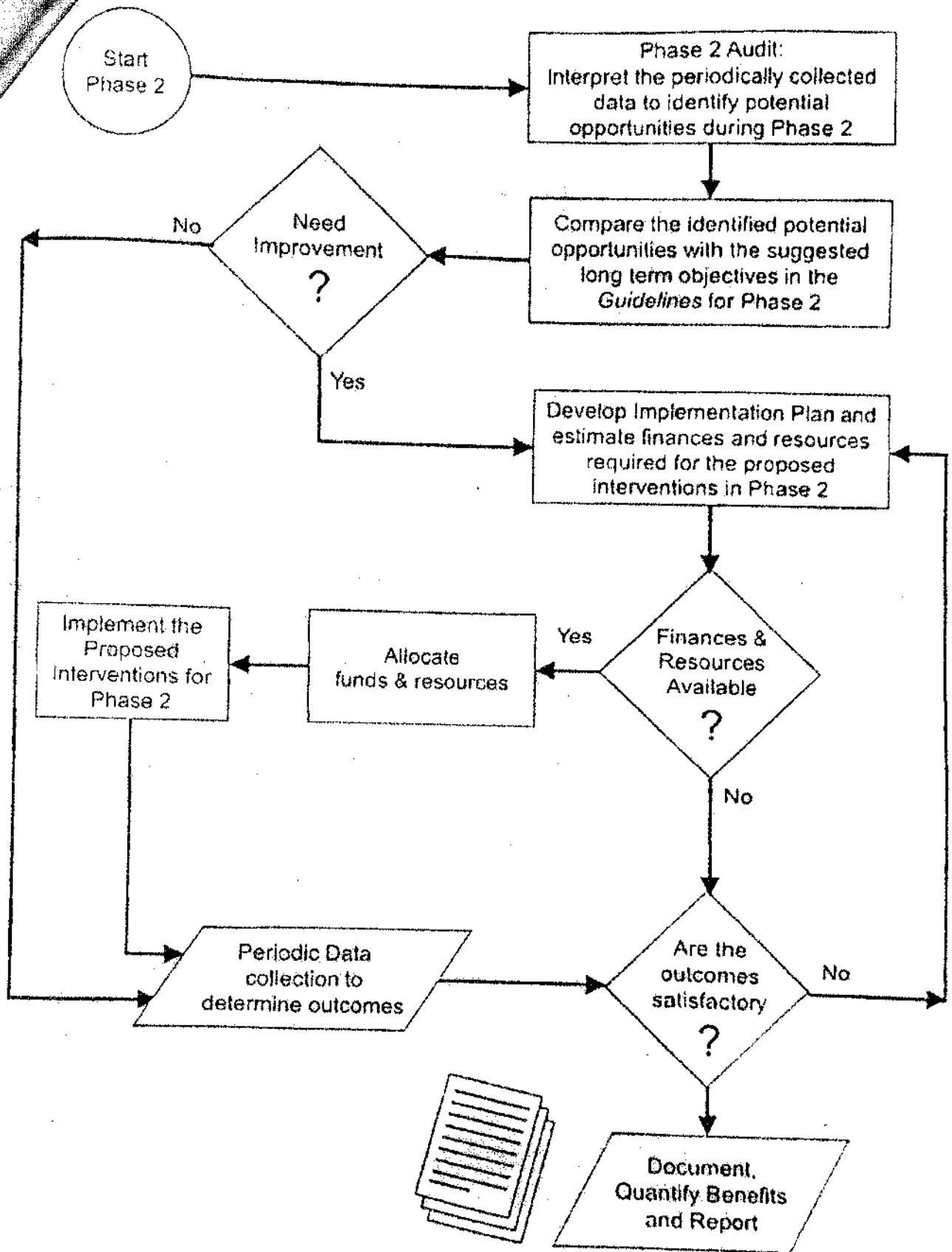


Figure 2: Work-Flow Diagram for Implementing Phase 2