



**GOVERNMENT OF CHHATTISGARH**

**FOREST DEPARTMENT**

**A LANDSCAPE - PLAN**

**FOR**

**ECO-TOURISM**

**AT**

**INDIRA UDYAN**

**PENDRA ROAD**

**CHHATTISGARH**

**[ PROJECT COST : RS. 5.11 Lacs ]**

Plan By: LEARN NATURE COMPUTECH (LNC), RAIPUR,  
PH. 0771-2524290, 98261-52429

# INDIRA UDYAN

## PENDRA ROAD (C.G.)

Gardens are as old as civilization. The earliest gardens of the world were perhaps the garden of Chinese medicinal plants established by the Emperor Shen Ming in 2800 B.C. The first garden of India were the pleasure gardens established by Mughal rulers during 14<sup>th</sup> and 15<sup>th</sup> centuries. These were founded at Lucknow, Srinagar, Banglore and other parts of Northern India. The Gardens are of high amusement, enjoyment, pleasure, aesthetic beauty as well as scientific interest.

When Gardens are designed to create a man made micro-diversity arranging space for recreation and benefit to enhance the aesthetic and functional quality of surrounding is called **landscaping**.

**Organic Gardening** is a simple way of working with nature rather than against it, of recycling natural materials to maintain soil fertility, and of encouraging natural methods of pest and disease control rather than relying on chemicals to do the job.

Pendra Road, newly formed district is in enormous pressure of augmented population, traffic, resulting in the dust and increasing air pollution directly and water pollution indirectly. City is unable to handle the natural recreational needs of the society due to lack of large green areas in the form of Parks, Gardens, Picnic spots, etc. for the society as a whole.

**Renovation of the existing Indira Udyan through Landscaping and Organic Gardening is the need of hour.** This is an important step towards the solution and fulfilling the natural recreational needs of people. This is an effort to provide a place for the mental piece, leisure, amusement along with inculcating love with the nature for the people & children coming in or passing through the Pendra Road.

## GOALS

- 1.To provide a space for amusement, enjoyment, pleasure, for the adults and fun, excitement, merriment for the children.
- 2.To create a place for exhibiting harmony with the nature and natural recreation.

## FEATURES

Following features are proposed in the Indira Udyan.

1. **ENTERENCE GATE (BEAR SHAPED):** A beautifully designed Bear shaped entrance gate representing local prominent fauna surrounded by existing Teak Plantation of the year 1976 .
2. **CAVE PASSAGE :** To create an atmosphere of natural forest and cave an artificial cave on the main path just before the children garden is proposed to generate excitement in the kids.
3. **RENOVATION OF GARDEN:** Existing Garden will be renovated by planting of extra plants, pruning, shaping of trees etc. as per the landscape and aesthetic requirement.
4. **ARCH GREEN GATE:** Path entering in to Garden would be decorated by the arch green gate; flowering climbers would be planted for spreading on the arch.
5. **PLAY EQUIPMENT:** Children play and amusement equipments would be installed in the children garden for entertainment, and brain development.
6. **PARKING:** To provide facility of parking to visitors a parking place would be developed in front of main entrance.
7. **UTILITY:** There is proposal of construction of 1 utilities at appropriate place.
8. **FENCING:** Periphery along the main enterance would be fenced by the chain link fencing.

9. **DISPLAY BOARDS:** Display boards would be placed at appropriate places stating historical, religious, background of the Pendra Road to attract the visitors.

10. **FEATURES FOR ORGANIC GARDENING:** The following features are proposed to ensure organic gardening apart from use of bone meal, fish meal, rock potash and wood ash.

**A. COMPOST CHAMBER:** Two chambers by brick masonry would be made at appropriate site within the garden for the production of Compost by scientific method by adding eco-friendly bacteria, alkali and animal manure in the solid waste generated in the garden it self.

**B. LEAF MOULDS:** Two leaf moulds would be constructed for the decomposition of leaves, waste generated during the pruning, shaping of trees.

## 11. ESTIMATE :

<b>Estimate for the Development of Indira Udyan</b>					
<b>S.No.</b>	<b>Particulars</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
1	Fencing	250	R.M.	450.00	112500.00
2	Development of Parking area	1	No.	L.S.	2000.00
3	Construction of Bear Shaped Gate	1	No.	L.S.	60000.00
4	Construction of Cave Passage as per detailed attached estimate.	1	No.	121783.00	121783.00
5	Renovation of Garden	1	No.	50000.00	30000.00
6	Children Play equipment	4	No.	L.S.	150000.00
7	Green Arch Gate	4	No.	5000.00	20000.00
8	Display Boards			L.S.	10000.00
9	Expenditure on unforeseen items			L.S.	5000.00
	<b>TOTAL</b>				<b>511283.00</b>

## 12. PROJECT COST :

Total Project Cost is Rs. 5,11,283.00

Five Lacs Eleven Thousand Two Hundred Eighty Three only.

Divisional Forest Officer  
Forest Division ( T )  
Pendra Road  
Chhattisgarh

DETAIL ESTIMATE FOR CAVE PASSAGE									
AT VILLEGE PENDRA DISTT. BILASPUR (C.G.)									
Note : According to Rate SOR R.E.S. 1/5/2000Applicable									
S.No.	PARTICULAR OF ITEMS	No.	LENGTH	BREADTH	H/D	QUANTITY	UNIT	RATE	AMOUNT
1	Excavation of hardsoil upto 50m. Lead & 1.50m lift l/c dressing page no-22, item no403(b)								
	OPEN FOUNDATION GUFA WALL	1	6	1	1	6	Cum		
	END SIDE	2	2.5	1	1	5	Cum		
						11	Cum	34.8	382.80
2	Folling foundation with sand l/c ramming in layers and watering	2	6	1	0.15	1.8	Cum		
	END SIDE	2	2.5	1	0.15	0.75	Cum		
	Filling in trenches =Total work- (sand+pcc+Rcc up to ngl)					3.52	Cum		
	11-(2.55+3.06+1.87)					6.07	Cum	175.1	1062.86
3	Filling foundation and plinth with cement nconcrete with 400 mm graded metal including curing etc 1:4:8 nmix	2	6	0.6	0.3	2.16	Cum		
	page no-29, item no613©	2	2.5	0.6	0.3	0.9	Cum		
						3.06	Cum	1036.1	3170.53
4	RCC WALL with								
	cement nconcrete with 20mm graded metal is used (1:2:4) mix page no-29, item n0613+616(a) slab	1	6	9	0.2	10.8	Cum		
		2	2.5	2.5	0.2	2.5	Cum		
	DEDUCTION FOR ENTRY DOOR	2	0.75	0.2	1.5	0.45	Cum		
						12.85	Cum	1642.8	21110.11
6	Steel ireinforcement work including bending in RC.C. work . Page -58 llt-1109(a) 1%of concrete					1285	kgs	22.17	28488.45
7	Fixing of form work including centering shuttering page -31.l.t-631								
	OUTER SIDE	2	6		1.5	18	Sqm		
	INTER	1	6		9	54	Sqm		
	END WALL	4	2.5		2.5	25	Sqm		
						97	Sqm	78.03	7568.91
8	Plastering and carving along with shaping as a natural cave with stones, boulders, plants etc. Plant holder spaces would be constructed over it.		L.S.						40000.00
9	Unforseen items such as electrification etc.								20000.00
								TOTAL	121783.65
RUPEES SIXTY IONE THOUNSAND SEVEN HUNDRED EIGHTY THREE AND PAISE SIXTY OFIVE ONLY.									

Divisional Forest Officer  
Forest Division ( T )  
Pendra Road  
Chhattisgarh

## CAPABILITY OF LNC.

LNC is a multi-disciplinary group of, experienced Foresters, Horticulturists, Landscapist, Engineers, Managers, Software Developers and Web Applicators, who are well versed in providing specialised services.

### WE HAVE KEY PERSONNEL IN:

<b>EXPERIENCED PLANNERS</b>		
<b>S.N.</b>	<b>DISCIPLINES</b>	<b>SPECIALIST</b>
1.	FORESTRY	<b>1. SHRI S.K. DATTA I.F.S. ( Retd.)</b> <b>2. SHRI L.B. OKHADE I.F.S. (Retd.)</b>
2.	HORTICULTURE	<b>1. Dr. B.L. TIWARI</b> M.Sc. (Agr.), M.S., Ph.D. (U.S.A.), Retd. PROFESSOR & HEAD, DEPARTMENT OF HORTICULTURE, IGKU, RAIPUR.
3.	BIO-SCIENTIST ( H. ADVISER )	<b>1. Dr. M.L. NAYAK</b> M.Sc., Ph.D., PROFESSOR & H.O.D. OF SCHOOL OF LIFE SCIENCE PT. R.S. UNIVERSITY, RAIPUR.
4.	LANDSCAPIST	<b>1. SHRI D.K. SHARMA</b> B.Sc., DIPLOMA IN MECHANICAL ENGINEERING, JAVA & ADVANCE JAVA, HTML, DHTML, JAVA SRIPT, C++, TRAINED LANDSCAPIST & HORTICULTURIST.
5.	MANAGEMENT	<b>1. Mrs. NOOPUR RAI</b> M.B.A. ( FINANCE)

<b>YOUNG DINAMIC EXECUTERS</b>		
6.	PROJECT ENGINEER ( ADVISER )	<b>1. MRINAL TIWARI</b> <b>B.E. MECHANICAL</b>
7.	FIELD OFFICER	<b>1. SANTOSH UPADHYAY</b> <b>B.Sc. (Ag.)</b>
8.	ENGINEER, CIVIL ENGINEER, & COMPUTER PROFESSIONALS	<b>1. ROSHAN TIWARI</b> DIPLOMA IN CIVIL ENGINEERING, EXPERIENCED ARCHITECT. <b>2. RAKESH SHARMA</b> B.Com., D.C.A, E- BUSSINESS DEVELOPMENT PROFESSIONAL <b>3. SHRI SUNIL E. TAKLE</b> B.E., JAVA, JAVA SCRIPT, VB SCRIPT, HTML, DHTML, ASP, DATA BASE, HANDLING, XML.

**In addition to above:**

- a. We have 8 highly qualified young persons responsible for the field and office works.
- b. We have increasing **Data Base of more than 4100 plant species** and a growing library of more than 1000 books related to environment, forestry, wild life, computer, management etc.
- c. We have experts in data analysis. Our Computer division have two computers of Pentium III series and One of Pentium I series along with 2 latest printers for the quality documentation work.

**We can prepare detailed Computer Aided Landscaping Plan along with the Estimates, Design & Layout of the Civil Structures, Green Area Development, Micro management Plan of the garden and evolve Revenue Generating Procedures. In addition to it we are capable of developing special software for the Computerized Garden Management**

( DINESH SHARMA)

LEARN NATURE COMPUTECH



To

**The Divisional Forest Officer**

Forest Division Raipur

Raipur, C.G.

Subject: Landscaping a Concept Plan for SMRITI VAN.

Respected Sir,

LNC is a multi-disciplinary group of, experienced Foresters, Horticulturists, Landscapist, Architects, Engineers, Managers, Software Developers and Web Applicators, who are well versed in providing specialised services.

We can prepare detailed Computer Aided Landscaping Plan along with the Estimates, Design & Layout of the Civil Structures, Green Area Development, Micro management Plan of the garden and evolve Revenue Generating Procedures. In addition to it we are capable of developing special software for the Computerized Garden Management

We are looking forward to serve the nation in the field of Natural recreation, Amusement and attract the children towards Natural Environment & Green Cover, applying the latest techniques including Information Technology. The children will learn with fun, pleasure and delight, about the nature. Any inquiry or help is always welcomed.

Please find LANDSCAPING CONCEPT PLAN OF THE SMRITI VAN RAIPUR. We will work out feature wise, detailed layout, drawing, design, estimating, costing for the submission of PROJECT REPORT after the approval of the concept plan.

The work will be deemed to start from the date of receipt of Mobilisation Fee, or the date of signing of the memorandum of Agreement whichever is earlier.

The Project will be prepared after the preparation of inventory, mapping and other relevant data collection, applying latest information technology.

Any other inquiry is always welcome.

Thanking You Sir,

(D.K. SHARMA)

LEARN NATURE COMPUTECH

**EXECUTION AND PAYMENT SCHEDULE  
OF  
CONCEPT PLAN, STUDY, PROJECT FORMULATION.**

<b>S.N.</b>	<b>PARTICULARS</b>	<b>EXECUTION PERIOD (In days)</b>	<b>CONSULTANCY FEE</b>	<b>PERCENTAGE OF FEE PAYABLE ( Of, 1.25 % of Civil Construction Project Cost &amp; 5 % Landscape Development</b>

				<b>Project Cost )</b>
1.	Concept Plan preparation.	7	On the submission of Concept Plan	5
2.	Preparation of Inventory, Derivation of Site quality, Testing of soil, Data Collection, and preparation of map indicating them etc.	30	Mobilisation Fee on Award of Study	20
3.	Preparation of interim, draft project based on the study / Submission of Inception Report	20	Submission of Inception report along with the Interim Draft Project.	10
			On acceptance of Interim report	10
4.	Preparation of Final draft project.	30	On acceptance of Final draft project.	15
5.	Preparation of detail designs, structural Plan,	20	Submission of detailed Project Plan.	15
6.	Elevations, detailed estimates & Final Project Plan in 5 copies		Acceptance of Final Project	25

(R.S. SHARMA)

LEARN NATURE COMPUTECH

SUPERVISION CHARGES  
OF  
THE PROJECT

S.N.	PARTICULARS	EXECUTION PERIOD (In days)	CONSULTANCY FEE	PERCENTAGE OF FEE PAYABLE ( Of, 0.75 % of Civil Construction Project Cost &
------	-------------	----------------------------------	--------------------	---

				<b>3 % Landscape Development Project Cost )</b>
1.	Up to Plinth Level or 25 % of work	30	After Plinth Level or 25 % of work	25
2.	Up to Door Level. or 25 % of work	45	After Door Level. or 25 % of work	25
3.	Up to Roof Slab or 25 % of work	40	After Roof Slab or 25 % of work	25
4.	Up to Finishing or 25 % of work	60	After Finishing or 25 % of work	25

(R.S. SHARMA)

LEARN NATURE COMPUTECH