

eCourts Phase III Plan

Overview

Overview

First Year Cost
INR Crores
₹ 2024.92

Total
INR Crores
₹ 7210.0

1

**Capacity Building
and Change
Management**

2

**Hardware and
Infrastructure**

3

**Software
Development &
Future Technology**

4

**Vision, Planning
and Management**

Capacity Building and Change Management

Capacity Building and Change Management

First Year Cost

INR Crores

₹ 45.0

Activities

Training and Awareness

- ICT Training and Education
- Outreach Programmes For Common Citizens/ Litigants
- eLearning content / Awareness & Training Materials In Regional Languages
- No. of programmes: 68 under 10 categories
- Fund: 15 Crores

Publicity Campaign

- Flagged by NCAER report
- Print & Media campaign.
- Product launch Publicity campaign.
- Social media campaign
- Special regional language campaign State-wise
- In coordination with DOJ- 10 Programmes – 30 Crores

Knowledge Management

First Year Cost

INR Crores

₹ 6.25

Components

Learning Management System

- Creation of online learning platform

A Comprehensive and Updated Repository of case law

- Head Note Preparation
- Freely accessible aggregator of case law
- Open APIs will allow service providers like case reporters to construct tools for value addition

Judicial Trustworthy Digital Repository

- Creation of digital case registry

Digital accessible ICT Infrastructure for differently abled

First Year Cost

INR Crores

₹ 8.14

First Year Expenditure

Budget Head	Items
Adobe Acrobat Pro	5
Braille embosser, Closed Captioning Software , etc	125
JAWS, Job Access With Speech	125
Experts/specialist per month	1
Developer per month • To create accessible digital infrastructure • Accessible websites, eFiling, judgments/orders • Regular auditing of public interfaces for accessibility compliance	2

Project Monitoring Unit (PMU)

First Year Cost

INR Crores

₹ 13.77

Physical Target

Total

INR Crores

₹ 56.87

Physical Target

First Year Expenditure

Budget Head	Quantity	Cost (INR Crores)
eCommittee PMU and Technology Office Computers (10 each)	20	0.144
Multimedia Software for content creation		0.055
PMU @ e-Committee Manpower*	30	4.56
PMU @ DOJ		3.81
Service Desk	10	0.72
Technology Office Manpower	12	1.308
Cloud for service Desk		1.35
Travel eCommittee		1.5
Contingency e-Committee and Service Desk		0.31

* Currently most of the manpower is provided by Supreme Court

Hardware and Infrastructure

Additional Hardware to the courts covered in Phase II

First Year Procurement

Budget Head	Units per Court	Number of Courts
All In One Computer	4	5620
Scanners	1	5620
LAN Nodes	4	5620
Digital Signature Token	4	5620

First Year INR Crores	Total IINR Crores
193.1	643.66
Physical Target	Physical Target
5620	18735

Year	INR Crores
Year 1	193.08
Year 2	193.11
Year 3	128.73
Year 4	128.73

ICT Infrastructure in newly setup Courts

First Year Procurement

Budget Head	Units per court	Number of Courts
All in One	8	750
MFD Printer	1	750
Scanners	1	750
Extra Monitor + 2 port VGA Splitter/Extension/Distribution Unit	1	750
Display Monitor for Current Case Display Board outside Court Room	1	750
LAN Nodes	16	750
500 VA UPS (2 hour backup) for all LAN switches	1	750
Digital Signature Token Class 3 for Court Officials – taking average of 4 per Court or eSign	4	750

First Year INR Crores	Total IINR Crores
62.87	209.59
Physical Target	Physical Target
750	2500

Year	INR Crores
Year 1	62.87
Year 2	62.87
Year 3	41.90
Year 4	41.90

ICT Infrastructure in newly setup Court Complexes

First Year Procurement

Budget Head	Units per Court complex	Number of Court Complexes
Site Preparation	1	400
Projector with screen	1	400
Touchscreen Kiosk with Printer	1	400
USB Hard Disk 2 TB	1	400
D. G. Set (2-hour backup) for Network Room – Average for 5 KVA	1	400
UPS (2-hour backup) for Network Room – average for 2 KVA	1	400

First Year INR Crores	Total IINR Crores
14.61	48.69
Physical Target	Physical Target
120	400

Year	INR Crores
Year 1	14.61
Year 2	14.61
Year 3	9.74
Year 4	9.74

ICT Infrastructure for High Courts

First Year Procurement

Budget Head	Units per High Court/ Bench	Number of High Courts/ Benches
Servers	1	55
Racks	1	41
Storage NAS 500TB	1	39
Network 24/48 Port Switches	2	41
Firewall	1	41

First Year INR Crores	Total IINR Crores
50.38	167.95
Physical Target	Physical Target
--	25 High Courts

Year	INR Crores
Year 1	50.38
Year 2	50.38
Year 3	33.59
Year 4	33.59

Infrastructure for Paperless Courts

First Year Procurement

Budget Head for Paperless Courts and Virtual Courts	Number of Courts
IT Infrastructure (eg LED Display, VC, Scanners, Microphone, Surround Sound etc)	150
Connectivity	150
Softwares (Annotation/Speech to text)	150
Site Preparation	150
Manpower *	150

* Calculated for 4 years

First Year INR Crores	Total INR Crores
53.88	359.20
Physical Target	Physical Target
150 Courts	1000 Courts

Year	INR Crores
Year 1	53.88
Year 2	107.76
Year 3	107.76
Year 4	89.8

Virtual Courts by Robust Digital Infrastructure

First Year Procurement

Budget Head	Number of Courts
IT Infrastructure (eg LED Display, VC, Scanners, Microphone, Surround Sound etc)	150
Connectivity	150
Softwares (Annotation/Speech to text)	150
Site Preparation	150
Manpower *	150

* Calculated for 4 years

First Year INR Crores	53.88	Total IINR Crores	413.08
Physical Target	150 Courts	Physical Target	1150 Courts

Year	INR Crores
Year 1	53.88
Year 2	125.72
Year 3	125.72
Year 4	107.76

Infrastructure of Video Conferencing in Jails

First Year Expenditure

Budget Head	No. of locations
A) VC Infrastructure (eg LED Display, VC, Scanners, Microphone, Surround Sound etc) for 700 Jails including broadband connectivity*	175
B) VC Infrastructure for 500 Hospitals including broadband connectivity*	125
C) VC Infrastructure for 9000 Courts+DSA*	2250
Total 10200 locations (2550 to be targeted in 1 st Year)	

First Year INR Crores	Total IINR Crores
90.55	228.48
Physical Target	Physical Target
2550 locations	10200 locations

Year	INR Crores
Year 1	90.55
Year 2	45.77
Year 3	45.92
Year 4	46.23

IT Infrastructure: Hardware and Software Procurement

First Year Cost

INR Crores

₹ 470.47

Budget Head	Variety	Cost (INR Crores)	Components	
Hardware (Computers, Scanners, Printers, LED Display, Servers, Storage, Firewall etc)	43	464.85	1. Paperless Courts 2. Virtual Courts 3. Live Streaming 4. Video Conference 5. NSTEP 6. ODR 7. Additional H/W	8. Newly setup courts 9. eSeva Kendra 10. ICT for differently abled 11. PMU 12. AI / Blockchain 13. Digitization 14. S/W Development
Software (Accessibility Kit, PSPDF tool kit, Adobe, VC Software, Multimedia)	7	5.62		
eCommittee			High Court	Dependency
1. Rationalizing hardware items and defining specs 2. Component wise requirements from High Courts 3. Exploring options for procurement 1. Central Rate Contract 2. High Court to decide mode 4. Allocate funds to High Court based on required infra			1. Confirming requirements 2. Procurement	1. Defining Specifications 2. Component wise exact requirements 3. Site preparation, live streaming platform, ODR concept

Digitization

Budget Head	Cost (INR Crores)
Digitization of Court Records	466.32
Backup devices cost included in Infra procurement	----
Digitization Software Tools (Judicial Digital Preservation System, Quality Check Tool etc)	9.94
Software Support and Maintenance	8.72

First Year Cost
INR Crores
484.96

Physical Target
777 Cr Pages

Total Cost
INR Crores
2038.4

Physical Target
3108 Cr Pages

eCommittee

- Digitization**
1. Current digitization status and budgetary requirement from High Court
 2. Budget distribution
 3. Providing Cloud Infrastructure
- Judicial Digital Preservation System (JDPS)**
1. Agreement with CDAC for developing JDPS
 2. Developing JDPS Ver 1.0

High Court

1. Budgetary requirement
2. Scaling of existing digitization
3. Outsourcing if not initiated
4. Digitization to commence

Year	INR Crores
Year 1	509.59
Year 2	509.59
Year 3	509.59
Year 4	509.59

Software Development & Future Technology

Software Development

First Year Cost

INR Crores

₹ 42.14

Budget Head	Quantity	Components	
Software Development (National)	118	1. Software Development	6. ODR
High Court Periphery	125	2. eFiling	7. Knowledge Management
Security Audit		3. AI/ Blockchain	8. Digital Accessibility
		4. ICJS	9. Security
		5. NSTEP	
eCommittee		High Court	Dependency
<ol style="list-style-type: none">1. Ecosystem approach and creation of platform2. Microservices architecture3. Developing single platform with single sign-on4. Use Cases for AI/Blockchain5. Expanding scope of asynchronous virtual courts		<ol style="list-style-type: none">1. Periphery development and value-added services	<ol style="list-style-type: none">1. Process Re-engineering2. Clarity on ODR3. Use cases on AI/Blockchain4. Budget for Security Audit to be enhanced

Future Technological Advancements - AI/ Blockchain

First Year Cost

INR Crores

₹ 11.46

To be Used in

AI

- Translation
- Prediction and Forecast : Analyze the case pendency and forecast the future litigation patterns.
- Improving administrative efficiency by automating Judicial Process
- NLP for identifying patterns like Acts/Sections, references to earlier Judgments
- Automated scrutiny in eFiling
- Intelligent scheduling of cases
- Enhancing CIS by studying past models
- Chatbots

Blockchain

- Storing Digital Evidence
- Bailable/Non-Bailable Warrants
- Judgments and Orders

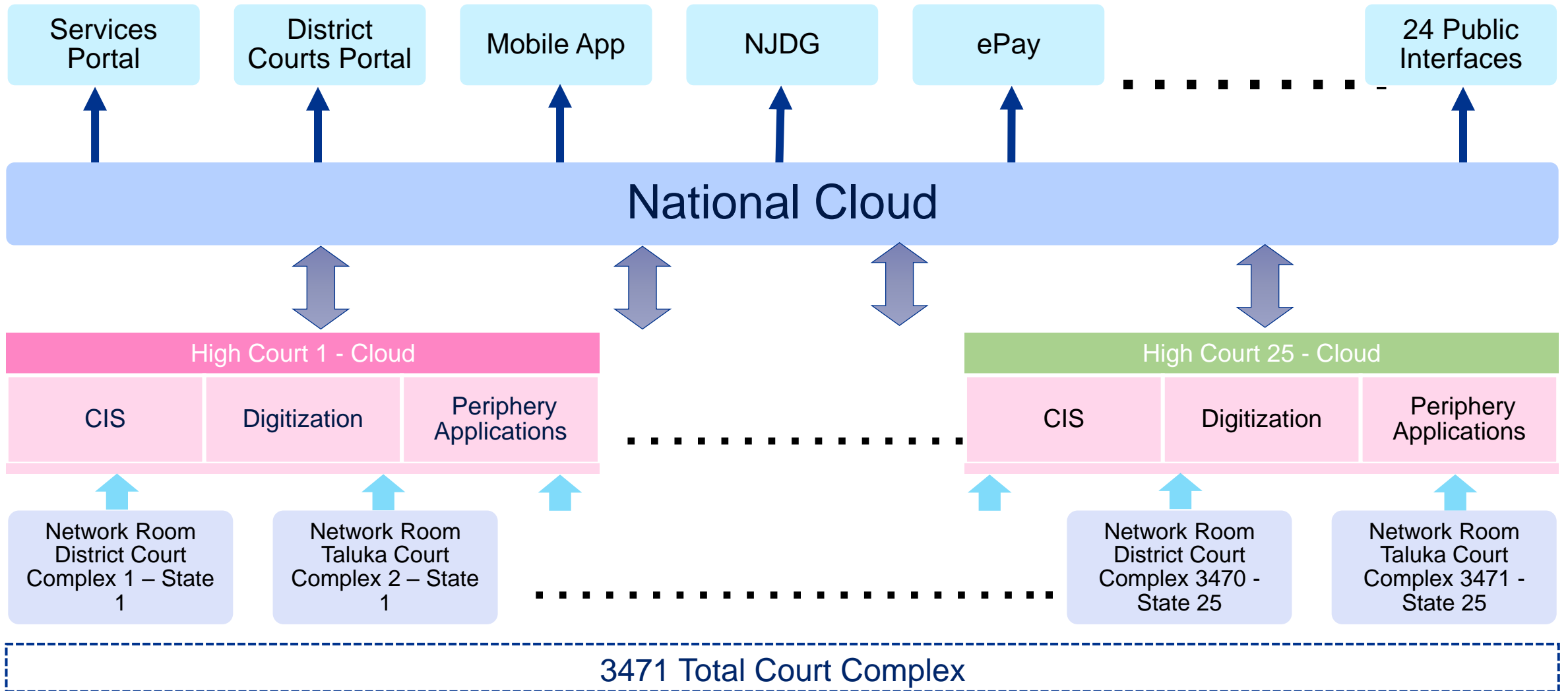
eCommittee

1. Identifying achievable Use Cases (areas where AI and Blockchain can be applied) to be targeted in 1st Year
2. Cloud – Infrastructure to be carved out from central infrastructure
3. Identifying the Agency for development and implementation of platform eg.
 - IIT
 - COE for AI
 - MEITY
 - Open-Source products from industry
4. Creating High Court teams to assist in creation of training corpus
5. Development to be completed for Use Cases identified in 1st Year
6. Implementation of identified Use Cases to commence

Dependency

- Involves R&D and creating lot of training corpus

Proposed Cloud in Phase III



Cloud & Connectivity

First Year Cost

INR Crores

₹ 611.56

Budget Head	Cost (INR Crores)	Components	
Cloud Capex (DC/DR)	456.5	1. Cloud	7. PMU
Cloud Opex (Manpower, Connectivity)	55.22	2. Digitization	8. Knowledge Management
Cloud for other components	94.73	3. AI/ Blockchain	9. E-Office
Connectivity (205 locations)	52.17	4. Video Conferencing	10.Connectivity
Contingency (1%)	5.11	5. NSTEP	
		6. ODR	

eCommittee

Cloud

1. Assessing requirements from High Court
2. Decision on proposed architecture and mode of procurement
3. Procurement of Cloud

Connectivity

1. Assessing requirements from High Court
2. Option to be explored
3. Implementation at 205 locations
4. Redundant Connectivity may be part of cloud budget

High Court

1. Assessment of cloud requirements
2. Assessment of redundant connectivity storage

Dependency

1. Redundant connectivity
2. Cloud enabled applications including periphery

Vision, Planning and Management

Item	Cost (INR Lakhs)	Infrastructure Requirements
One eSK	8.77	Scanner, All in one Computers, LAN and Internet, Camera, Printer, Document visualizer, Speaker and mic
<ul style="list-style-type: none"> Establishment cost 	6.73	
<ul style="list-style-type: none"> Maintenance cost per year 	2.04	

eCommittee

- | | |
|--|--|
| <ol style="list-style-type: none"> Preparation of Standard Operating Procedure (including National Design) Allocation of sites and Disbursement of budget Hardware specifications <ul style="list-style-type: none"> Services list Services to be provided Enquiry services E-Filing services VC services | <ul style="list-style-type: none"> Regular filing services like certified copies, payment of online fees Other services like assisting with downloading of mobile apps, virtual courts payment, legal aid services <ol style="list-style-type: none"> Upgradation of software to record services provided List of services to be prepared with manuals and video tutorials for training to re-sources deployed in eSeva Kendra |
|--|--|

High Court

- Identification of sites to ensure one eSK at each Court Complex (at least with 10 courtrooms)
- Site preparation**
- Manpower deployment
- Suggestions from Stakeholders (Courts, Bar Councils etc.)

Court Room Live Audio-Visual Streaming System (CLASS)

First Year Cost

INR Crores

₹ 37.42

Budget Head	No of Courts
IT Infrastructure (eg LED Display, VC, Scanners, Microphone, Surround Sound, Studio etc)	100
Connectivity	100
Speech to Text	100
<u>Site Preparation</u>	100
Manpower *	100

* Calculated for 4 years

eCommittee

1. Constitution of Experts Committee
 - for hardware specifications
 - For live streaming platform
2. Feasibility of reappropriation of the increased cost of Manpower and Infrastructure from other components.
3. Budget Disbursement for setting up Live Streaming Courts at each High Court
4. Development of Live Streaming Platform

Infrastructure Requirements

1. Regular Hardware
2. Video Streaming studio
3. Workstation and video editing software
4. Playback Server with storage
5. Media Encoder or Software based live streaming facility
6. Soundproof Court Rooms
7. Dedicated Control Room
8. Video Conference Solution with live stream facility

High Court

1. Framing and notification of the rules (modal rules prepared and forwarded by eCommittee).
2. Identification of 2 – 3 Court halls viz. Chief Justice Court and the court dealing with matters of general public importance for live streaming purposes.
3. Proposal from High Courts on Infrastructure requirement.
4. Procurement of Hardware.
5. Setting up of Live Streaming Courts as per Live Streaming Rules.

Solar Facilities for ICT Infrastructure

First Year Cost
INR Crores

₹ 57.45

Physical Target

383 Units

Total
INR Crores

₹ 229.5

Physical Target

1530 Units

eCommittee

1. Distribution of sites and budget
2. Consultation with the Ministry of New and Renewable Energy
3. Coordinate and Monitor the implementation

High Court

1. Identification of allocated sites
2. Entrusting the State Nodal Agency for the MNRE, as the technical consultant.
3. Feasibility study and Preparation of DPR
4. Tendering Process and Issue of work order
5. **Site preparation**

Online Disputed Resolution (ODR)

First Year Cost
INR Crores

₹ 7.94

Total
INR Crores

₹ 21.34

eCommittee

1. Model Rules for ODR
2. Standard Operating Procedure for ODR centres
3. Hardware specifications
4. Budget Disbursement for setting up one ODR centre at each High Court and District Level
5. Development of ODR Platform / Adoption of Readymade Solution

High Court

1. Site identification
2. Hardware Procurement
3. Setting up of ODR Centre
4. Manpower Deployment

Judicial Process Re-engineering

₹ 16.5

₹ 33

eCommittee

1. Funds to be transferred
2. Coordinate collation analysis and best practices
3. A mechanism (Model) may be devised to assess the High Courts' capability maturity (like CMM Level) to score the impact of
4. process reengineering
5. A detailed List of areas of study is being prepared.
5. Professional management institutes working in process re-engineering may have to be engaged

High Court

1. Formation of Committees - Central Level and High Courts (PRC)

Thank You