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Project Execution vs Present Information System

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Project Execution & Information Required

Present Information Solutions

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• Saroop Chand (Chairman)

Founder and Chairman of the group, leading the group since 1988 and expanded to 6 companies in India and US. Delhi University alumni, an MBA from Delhi School of Economics Email: saroop.chand@adroitecinfo.com Phone: +91 9810111540

• Mahesh Chand (Advisor)

30+ years of experience in leadership roles, specifically Finance, Operations and Consulting. Worked with organizations at key positions in Essar Group, Deloitte.

Email: <u>mahesh.chand@adroitecinfo.com</u> Phone: +91 9810600626

• Nitin Gupta (Co-Founder & Director)

Planning specialist with 15 years of experience in Project Planning and Control with organizations like Tata Consulting Engineers, Reliance Jio, Indiabulls Power etc

Email: <u>nitin.gupta@myepcteam.com</u> Phone: +91 9987671199

Core Team



• Sunil Vaishnav (Co-Founder & Director)

EPC professional with more than 30 years of experience in various types of industries in India and abroad. He has worked with EPC organizations like Genelec Ltd, Punj Lloyd Ltd , Reliance Infra, Indiabulls Power etc. He has extensive work experience in Oil and Gas and Thermal Power Sector.

Email: <u>sunil.vaishnav@myepcteam.com</u> Phone: +91 9811115163

• Shashi Verma (CEO)

PMP certified project management professional with excellent combination of business, domain and technical skills, having experience of more than 18 years across different disciplines of IT, technology, operations, project/program management. Led consultancy and delivery of various Project management solutions to the clients across globe and multiple verticals i.e. Pharma, EPC, Energy, Food & Beverages etc.

Email: shashi.verma@myepcteam.com Phone: +91 9958291201

• Priyanka Gupta (Consultant)

Leading architect with 12+ year of experience. Worked with organizations like Jindal Group, Pizza Hut.

• Parul Gupta (Consultant)

Engineering graduate from Delhi college of Engineering. Worked as IT Consultant with organizations like HCL Technologies.



- Part of Adroitec group established in 1988
- All India spread with offices across India (Bengaluru, Mumbai, Hyderabad, Noida, Chennai, Kolkata, Pune, Coimbatore), which helps us to closely work with the customer.
- Engaged in IT Consulting of Infrastructure and Engineering Businesses
- Represents Oracle, PTC, Bentley, HP, ZWSOFT etc.
- Rich Experience in project planning, execution and IT implementation related to project

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A Cloud Based Integrated Project Management Solution For Construction Industry

- Schedule Management
- Engineering Management
- Procurement Management
- Contract Management
- Construction Management
- Issue management



C-130 Sector-2 Noida, India Pin-201301 Tel: +91 120 4864300 Fax: +91 120 4864333 Email: info@myepcteam.com

Current Solution

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- Disparate system which operate in Silos
- Major companies implemented ERP to handle finances and procurement to ensure integration
- Do we not need the same in Project management ?

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User Access Management

- 3 Dimensional User Access
 - Project Level
 - Role Level (PM, Document, Procurement and Construction Controllers)
 - Module Level (Read Only/ Modify)

EPC Projects	Pvt. Ltd.				Project : Rin	g Road Project	\$	Data	Date : 01-Ma	ıy-18	Va	ishnav 🔻
Admin 🔻 🛛	Portfolio 🔻	Analytics V	Budgets ▼ Plannin		Engineering V	Procurement V	ocurement ▼ Construction ▼		Resources ▼ Issues ▼		os 🔻	
Users U	ser Rights	Settings										
Add User	All Projects	\$										
User ID	First I	Name	Last Name		Company Name		Email ID	User	Role	Phone No	Host	Por
2296	Ajay	Tar	ndon	EPC Proj	ects Pvt. Ltd.	ajay@epcproject	ts.com	Engineering	Team	9898764334		
2299	Hemant	Ku	mar	EPC Proj	ects Pvt. Ltd.	hemant@epcpro	jects.com	Procuremen	t Team	9899664477		
2298	Lokesh	Ku	mar	EPC Proj	ects Pvt. Ltd.	lokesh@epcproj	ects.com	РМО		8505564356		
2295	Munish	Ku	mar	EPC Proj	ects Pvt. Ltd.	munish@epcpro	jects.com	Constructio	n Team	9885431265		
2297	Rajesh	Ku	mar	EPC Proj	ects Pvt. Ltd.	rajesh@epcproje	ect.com	Procuremen	t Team	9898441776		
2294	Sunil	Vai	shnav	EPC Proj	ects Pvt. Ltd.	sunil@epcprojec	ets.com	Admin		5465878787		
2311	Vaishnav	Sur	nil	EPC Proj	ects Pvt. Ltd.	snl.vaishnav@gr	mail.com	Admin		9898776655		

Project Planning & Scheduling

- Planning & Scheduling- WBS, Activities, Activity Scope, Steps, GANTT, Critical Path
- Resources Manpower and Equipments
- Imports from MSP, Primavera and Excel
- Activities Association with BOQ Items/Materials/Drawings

EPC Projects Pvt. Ltd.			Pro	oject : Ring Ro	ad Projec	t	¢		Data	Date : 01-Ma	y-18	Vaishnav 🔻
Admin ▼ Portfolio ▼ Analytics ▼ Buc	lget	s 🔻 Plan	ning 🔻 Engin	eering V Pro	ocureme	nt 🔻 C	onstruction V	Resourc	es 🔻	Issues V	Progress Phot	os 🔻
WBS Activity Scope Relationships		Reports	Steps Template	Baseline								
Add Activity () B all	1		🖶 💲	Add Relat	ionship	Reset	t					1
Activity Name	S	i Duration	Start	Finish	Prog (%)	Delay	l Jan Feb Mar	Apr May	Jun J	2018 ul Aug Sep	Oct Nov Dec	Jan Feb Mar Apr Ma
Ring Road Project		268	01-Apr-18	24-Dec-18	0	0						Ring Road Project
Project Start Milestone		0	01-Apr-18 [A]	01-Apr-18 [A]	100	0		 Project 	Start Mil	estone		
□ General Work		90	01-Apr-18	29-Jun-18	26	0				General Work		
ROW	S	90	01-Apr-18 [A]	29-Jun-18	33	0				ROW		
Site office setup		30	01-May-18	30-May-18	0	-20	-	_	Site	office setup		
Camp Set-up		60	01-May-18	29-Jun-18	0	-30	-			Camp Set-up		
P&M Set-up		60	01-May-18	29-Jun-18	0	-30	-	_		P&M Set-up		
⊟ Highway Work		246	01-Apr-18	02-Dec-18	0	-31					н	ighway Work
□ Chainage 1		246	01-Apr-18	02-Dec-18	0	-31	-					hainage 1
Clearing & Grubbing, Original Ground L		<i>i</i> 94	01-Apr-18 [A]	03-Jul-18	0	-14	4			Clearing & C	rubbing, Original G	round Level
Embankment	S	<i>i</i> 164	21-Apr-18 [A]	01-Oct-18	0	-4		-			Embankment	
Subgrade	S	<i>i</i> 160	11-May-18	17-Oct-18	0	5	-	-			Subgrade	

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Engineering Management

- Master Drawing/Document List
- Drawings and Documents Status Tracking
- Revision Control
- Aligning of Drawings with Construction Activities

EPC Projects Pvt. Ltd.	PC Projects Pvt. Ltd.				Project : Ring Road Project					Data Date : 01-May-18					
admin ▼ Portfolio ▼ Analytics	▼ Budgets V	▼ Planning	▼ E	ngineering 🔻 Procu	rement V	Constru	ction V	Resources	▼ Issu	es 🔻 Prog	gress Photos	V			
EBS Drawings Remarks	Reports D	ownload D	rawing	Comparison			ά.								
Add Drawing B ↑	R 💶 🗉	Reset													
DrawingName	DrawingNo	Drawing Re	RevNo	Current Status	Current	Discipline	Drawing	Download	Delay D	Total Value	Earned Value	Progress (%)	Remarks		
Ring Road Project										23	20.5	89)		
oxdot Drawings for Highway work										7	6	86	;		
∃ Typical cross-section-1										4	3	75	1		
Preliminary Drawing	RRR/TCS	02-Apr-18	1	Drawing Initiated	30-Apr-18	B Highway w	TCS-1/R0	Ł	100	1	0.5	50)		
Working Drawings	RRR/TCS	05-May-18	3	Issued For Review & Ap	02-May-18	B Highway w	TCS-1/R0	*		1	1	100)		
As-built drawings	RRR/TCS	02-Mar-19	1	Issued For Review & Ap	02-May-18	B Highway w	Record Dr	*		1	1	100)		
Material Take Off	RRR/TCS	24-May-18	1	Drawing Initiated		Highway w			48	1	0.5	50)		
E typical cross-section -2										3	3	100)		
Preliminary Drawing	RRR/TCS	07-May-18	2	Issued For Review & Ap	02-May-18	Highway w	TCS-2/R0	*		1	1	100)		
Working Drawing	RRR/TCS		1	Issued For Review & Ap	02-May-18	Highway w	TCS-2/R0	*		1	1	100)		

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Procurement	
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- Master Material List
- Bulk Material and Packages
- Purchase and Work Orders management
- Store Management (Material Received and Issued) •

PC Projects Pvt. Ltd.		Project : Ri	ng Road Project	\$	Dat	Vaishnav 🔽				
dmin ♥ Portfolio ♥ Analytics ♥ Budgets ♥	Planning V	Engineering V	Procurement V Co	nstruction V	Resources V	Issues	Progress	s Photos 🔻		
MBS Materials Material Orders Package C	Orders Store	Reports	Materials Comparision							
Add Material B ↑ ↓ X Reset										٦
Item Name	Item No	Offer Received	Vendor	U.O.M	Budgeted Qty	MR	PO Placed	Recd at Site	Issued	InSt
Ring Road Project										
🗆 highway material	101									
Soil Type A	1		0 J S Construction	Cum	200000	100000	6000	3000	2200	
Soil Type B	2		0 JS Construction	Cum	200000	10000	10000	5000	4000	
Granular Sub Base (GSB)	3		0 Shree crushers	Cum	161200	100000	100000	65000	20000	
WMM	4		0 ABC crushers	Cum	70000	50000	10000	7000	0	
DBM	5		0 XYZ Hot Mixes	Cum	30000	10000	5000	3000	0	
DBM -2	6		0 XYZ Hot Mixes	Cum	30000	20000	5000	2000	0	
Structure Material	102									
Reinforcement Steel	1		0 Tata Steel	MT	137	50	0	10	0	
Cement	2		0 Ultratech	Kg	1020290	250000	100000	70000	5000	



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EPC Projects	PC Projects Pvt. Ltd.					Project : Ring Road Project 🗘						Data Date : 01-May-18			
Admin V I	Portfolio 🔻	Analytics V	Budgets V	Planning	▼ Engine	ering 🔻	Procurement	▼ Constr	uction V	Resour	ces 🔻	Issues V	Progress P	hotos 🔻	
Over All DPR	R Monthly	DPR Punc	h Points												
хI													OPR	ManPov	ver Machinary
	Act	ivity		Start	Finish	Budgeted Units	UOM	Today's Quantity	Cumm. Qty	Progress (%)		Remark	¢		Issues
Ring Road P	roject									0					
E Ring Road P	roject > Genera	l Work								0					
E ROW				01-Apr-18	30-May-18	15000	Mtr		5000	33.33					
Chainag	ge 1					8000				0					
Chainag	ge 2					7000				0					
Site office	setup			01-May-18	30-May-18	1	Lot		0	0					
Camp Set-	-up			01-May-18	29-Jun-18	0			0	0					
P&M Set-	·up			01-May-18	29-Jun-18	0			0	0					
Ring Road P	roject > Highwa	ay Work								0					
	roject > Highwa	ay Work > Chaina	age 1							0					
Clearing &	& Grubbing, Or	iginal Ground Le	evel	01-Apr-18	03-Jun-18	800000	Sqm		1000	0.13	Back h	oe break dow	n for 2 hour	Backhoe M	aintenance Contrac
🗆 Embankm	nent			21-Apr-18	21-Sep-18	704000	Cum		1000	0.14					
layer 1						704000	Cum		0	0					

Construction

- Daily Progress Report
- Monthly Progress Report
- Manpower and Machinery
- Automatic updates to Project plan

- Change Orders

EPC Projects Pvt. Ltd.			Project :	Ring Roa	d Project	¢		Data 1	Date : 01-May-18		Vaishnav 🔻
Admin ▼ Portfolio ▼ Analytics ▼ Budgets ▼	Planning	▼	Engineering	▼ Pro	curement V	Constructi	on V R	esources V	Issues V Prog	ress Photos 🔻	
Cost Sheet BOQ Items RA Bills Cha	nge Orders						, i	ĺ			
Add Item 🕇 🖡 🤤 Reset											
BOQ/Item Name	ItemNo	i	UnitRate	UOM	Scope Quantity	Changed Quantity	Final Scop Quantity	e Completed Quantity	Scope Amount	Change Amount	Final Amount
🗆 Ranchi Ring Road Project	RRRP								1,04,03,71,250	00 5,76,00	0 1,04,09,47,250.0
⊡ Section-A									1,00,49,99,000	00 5,76,00	0 1,00,55,75,000.0
□ Site Clearance	1								32,00,000	00	0 32,00,000.0
Clearing and Grubbing Roa	1.1		4	Sqm	800000		8000	00 10800.0	0 32,00,000	00	0 32,00,000.0
□ Earthwork	2								15,25,76,000	00 5,76,00	0 15,31,52,000.0
Soil Type A	2.1		144	cum	704000	4000	7080	00 23280.0	0 10,13,76,000	00 5,76,00	0 10,19,52,000.0
Soil Type B	2.2		160	cum	320000		3200	00 12220.0	0 5,12,00,000	00	0 5,12,00,000.0
□ Sub-base coarse	3								12,33,18,000	00	0 12,33,18,000.0
Granular Sub-base with Well Graded Material(CB	3.1		765	cum	161200		1612	00 4650.0	0 12,33,18,000	00	0 12,33,18,000.0
□ Base coarse	4								8,75,00,000	00	0 8,75,00,000.0
Wet Mix Macadam	4.1		1250	cum	70000		700	5260.0	0 8,75,00,000	00	0 8,75,00,000.0

• BOQ Tracking

- Cost Sheet
- Running Account Bills

Contract, Budget and BOQ







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Dashboard and Reports

roject Reports List	4 4 1 of 1 ▷ ▷ 4 Find Next 🔍 • 🚱		
 Project Status Summary Project Progress Curve	Project Progress Curve		
DashBoard	Report Date: 12-Jul-18		
onstruction Reports List	Project Name: Ring Road Project		
Daily Progress ReportMonthly Progress Report			
OverAll Construction Status	120 -	actual	
Key Activity StatusIn-Progress Activities		← forecast ← planned	
Delayed ActivitiesReport by Activity Code	100-	•	
HindrancesPunch Points			
ngineering Reports List	80-		
Engineering Summary	9, g		
Drawing StatusDelayed Drawings			
Drawings By Discipline			
Open Remarks rocurement Reports List	40-		
·			
Bulk Material StatusPackages	20-		
Package DetailPurchase Orders			
Stock Register	0 01 Mar 2018 01 Jul 2018 01 Sep 2018 01 Nov 2018	-	
Material Ledger	01 Apr 2018 01 Jun 2018 01 Aug 2018 01 Oct 2018 01 Dec 2018		

Issues, Hindrances, Quality and Safety Incidents

- Issues Recording
- Issue Assignment & Status Tracking
- Hindrances
- Punch Points
- Safety Incidents

EPC Pro	jects Pvt. Ltd.				Project	Ring Ro	ad Project	\$	D	ata Date : 01-M	ay-18	Vaishnav 🔻
Admin V	▼ Portfolio ▼	Analytics	▼ Budgets ▼	Planning V	Engineeri	ng 🔻 Pi	rocuremen	t ▼ Construction ▼	Resources	▼ Issues ▼	Progress Photos V	
Issues												
Add Is	sue Raised H	By: -Sele	et 🗍	Issue 7	Гуре:	-Select	*	Assigned To:	Select	\$	Status:Select	\$
	Priority	-Sele	ct 🕈	Pendin	ng With:	-Select	ŧ	Open Since:	Select	\$		
Issue ID		Issue Title		Creation Date	Closure Date	Status	Priority	Issue Raised By	Is	sue Assigned To	Pending Wi	h Details
1243	Inadequate numbers of	dewatering Pu	mps	18-May-18		Open	High	Vaishnav Sunil	Vaishnav	Sunil	Vaishnav Sunil	<u>Details</u>
1240	Frequent Brealdown of	f dumpers		11-May-18		Open	High	Vaishnav Sunil	Vaishnav	Sunil	Vaishnav Sunil	Details
1239	Quality			11-May-18		Open	High	Vaishnav Sunil	Vaishnav	Sunil	Vaishnav Sunil	Details
1233	Inadequate contractors	resources		11-May-18		Open	High	Vaishnav Sunil	Vaishnav	Sunil	Vaishnav Sunil	Details
1221	Backhoe Maintenance	Contract		02-May-18		Open	High	Vaishnav Sunil	Vaishnav	Sunil	Vaishnav Sunil	Details



Progress Photos

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EPC Projec	EPC Projects Pvt. Ltd.				Project : Ring	g Road Project	\$	Data	Vaishnav 🔻		
Admin V	Portfolio 🔻	Analytics V	Budgets V	Planning 🔻	Engineering V	Procurement V	Construction V	Resources V	Issues V	Progress Photos 🔻	
Progress Pl	hotos							M.			
Upload P	Photo										

12-Jul-18



03-May-18



Few illustrations of problems handled







- Source of information to be at input point
- Relevant reports to concerned people, as and when required
- Cost of IT and it's Infrastructure management

Solution Architecture



Implementation Roadmap

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PHASE 1	PHASE 2	PHASE 3
 Requirement Analysis Implementation Planning Data Gathering Data Preparation 	 Implementation Execution Data Feeding Basic Reporting Go-Live 	 Support & Maintenance Advance Reporting

Value Addition





Thank You



Shashi Verma :+919958291201 Email: shashi.verma@myepcteam.com

> C-130 Sector-2 Noida, India Pin-201301 Tel: +91 120 4864300 Fax: +91 120 4864333 Email: info@myepcteam.com



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