

EUREKA D-SOFT PVT. LTD.



STRUCTMAN



CIVILMAN

STRUCTMAN | CIVILMAN

STRUCTMAN is the software solution for managing STRUCTURAL activities on construction site. All activities related to fabrication of structural assemblies like FITUP, Welding, NDT, Painting, Structure History, Transportation, Storage in Lay down till Dispatch for erection site is managed efficiently through various inbuilt modules like ENGINEERING MATERIAL CONTROL & PLANNING, PRODUCTION, WELDING, NDT, PAINTING, LAYDOWN & DISPATCH. After Dispatch, the progress of Erection, Site checking, Site bolting and welding, Painting and other in SITU activities are also monitored through similar modules.

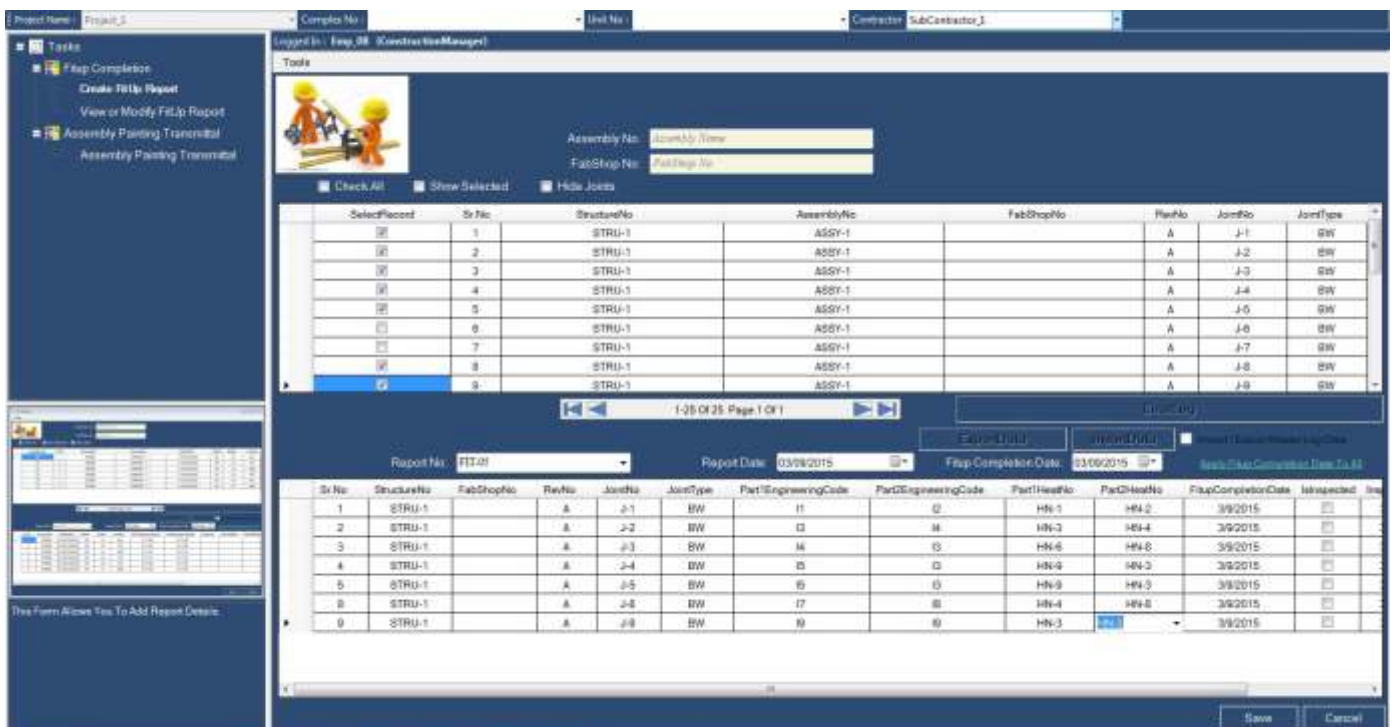
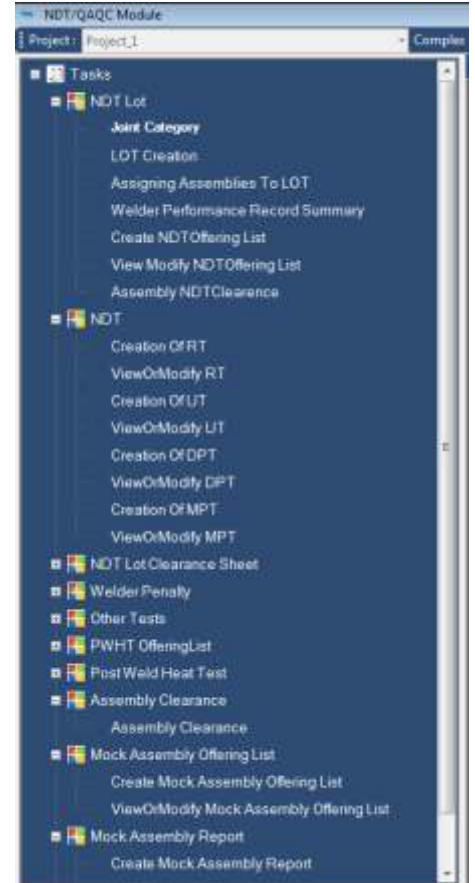
The Input consists of Structural Assembly wise Bill of materials with part item code, part number, number of pieces, quantity, Material specification, and other details known as : Engineering BOM". In a structural assembly the applicable Welding Joint numbers and the Connecting Parts (1 and 2) item code are decided interactively by the user by referring the drawings.

Structural Assemblies are approved at engineering release level & released for fabrication after checking the joints , BOM,NDT & SR requirement, Painting etc.

Assembly drawings are released for fabrication through Documented Transmittal with Assembly wise tonnage & scheduled completion date for fabrication.

OUTPUT REPORTS:-

- Fitup report
- Welding report
- NDT report (RT,UT,DPT,MPT)
- Structure history sheet
- Painting
- Laydown report
- Dispatch report
- Progress review report
- Welder performance report



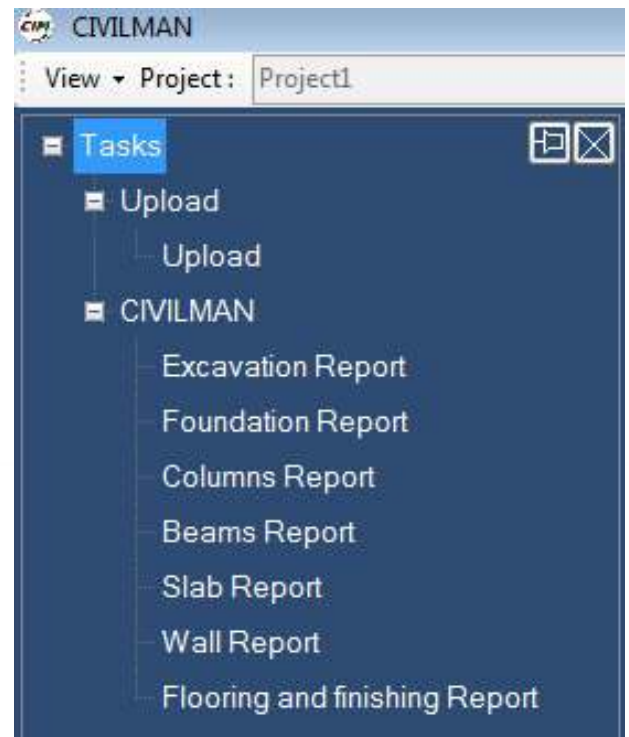
CIVILMAN is the solution for managing civil construction activities on the site. All activities related to Construction of civil structures like Earthwork, Piling, Concreting, masonry and plastering, Flooring, Waterproofing, Doors/windows, Painting & other Misc works are managed through this solution.

Main Civil structures are logically divided into structural items like Foundations, Pedestal, Columns, Beams, Slabs, Walls, Floor & Ceiling etc. with reference number, Grid location, Elevation positions etc.

Status of Civil construction activities are recorded as per daily progress in Construction site in the system. Stage wise progress of individual civil structural items (foundation, columns etc.) are recorded & monitored for opening the front/scope of next level of activity.

INPUTS:-

- List of construction activities (excavation in soft soil, excavation in hard soil by chisel, excavation by blasting, RCC M20, RCC M30, PCC etc.)
- Activity reference number with Overall project scope
- Main Civil Structure wise Quantity breakup scope from Engineering. Activity wise Quantum of work for individual civil structural items (Foundation, beam, column etc.) with activity reference number & structural reference number from Engineering
- Engineering MTO for individual civil structural items



ACTIVITY CODE	DESCRIPTION	UNIT of quantity	STRU-1	STRU-2	STRU-3	STRU-4	STRU-5	STRU-6	STRU-7	STRU-8	STRU-9	STRU-10	Total of Qty
PART A - EARTHWORK													
A.1	Excavation in all kinds of soil other than rock including shoring, dewatering, lowering down ground water 1.0 m below foundation carrying away surplus excavated earth to areas of disposal anywhere outside factory premises, etc.												
A.1.1a	Excavated depth 0 m to 2.0 m, casing lead 400 m	CUM	400	200	150	175	183	260	165	142	230	55	
A.1.1b	Excavated depth 0 m to 2.0 m, casing lead 1000 m	CUM	250	120	130	150	144	165	126	214	250	42	
A.1.2a	Excavated depth 2.0 m to 4.0 m, casing lead 400 m	CUM	360	452	582	12	125	412	300	562	452	332	
A.1.2b	Excavated depth 2.0 m to 4.0 m, casing lead 1000 m	CUM	30	52	63	95	48	20					
A.1.3a	Excavated depth 4.0 m to 6.0 m, casing lead 400 m	CUM				120	56	25	45	36			
PART B - CONCRETING													
B1	Providing, mixing, tamping, placing, consolidating and curing Plain Cement Concrete using ordinary portland cement conforming to IS-456 with maximum W/C ratio 0.45 with necessary slopes as specified for foundations, grade slabs, ramps, sills, copings, t												
B1.1	M5	CUM	36	42	34	26	28	27	39	49	47	38	
B1.2	M10	CUM	29	45	25	26	242	38	37	82	92	76	
B1.3	M15	CUM	15	12	14	12	15	13	14	15	16	24	
B1.4	Plain Concrete of M10	CUM	9	8	12	14	8	7	16	14	23		
B1.5	Plain Concrete of M15	CUM	29	45	25	26	242	38	37	82	92	76	
B2	Providing, mixing, placing, vibrating, curing and roughening the surfaces wherever required, Reinforced Cement Concrete using Ordinary Portland cement conforming to IS-456 with minimum cement content 330 kg/m ³ and maximum W/C ratio 0.45 of grade M20/M25/M												
B2.1	M15 grade in substructure	CUM	36	42	34	26	28	27	39	49	47	38	
B2.2	M15 grade in superstructure	CUM	29	45	25	26	242	38	37	82	92	76	
B2.3	M20 grade in substructure	CUM	15	12	14	12	15	13	14	15	16	24	
B2.4	M20 grade in superstructure	CUM	9	8	12	14	8	7	16	14	23		
B2.5	M25 grade for substructure	CUM	29	45	25	26	242	38	37	82	92	76	

OUTPUTS:-

- Monitoring the status of activity completion for civil structural items
- Creation of reports for activity completion of civil structural items
- Generation of List of activities completed for Main Civil structure
- Generation of List of activity pending for completing Main Civil structure
- Reports of activity Schedule data & actual completion date
- Reports of estimated quantum & actual quantum of work as per data of construction completion

Foundation Report																						
Select	Tag	Description	GridRef	Size(M)	Length	Breadth	Depth	Item	ItemSubType	ConcreteVolume	RebarWeight	ConcreteGrade	DWGNo	RevNo	IsExcavation	ExcavationCo	IsLeveling	LevelingCo	IsPCC	IsShutter	IsRebarPlacing	IsConcreting
<input type="checkbox"/>	Fdn-1	Foundation	A-1	2.5X2.1X0.6	2.5	2.1	0.6	Slab	Rectangular	3.15	346.5	M20	DWG-01	RO	<input type="checkbox"/>	03/09/2015	<input checked="" type="checkbox"/>	03/09/2015	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Fdn-1	Foundation	B-2	2.5X2.1X0.6	3.5	2.1	0.6	Slab	Rectangular	4.41	485.1	M20	DWG-01	RO	<input checked="" type="checkbox"/>	03/09/2015	<input type="checkbox"/>	03/09/2015	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Fdn-1	Foundation	A-2	2.5X2.1X0.6	2.5	2.1	0.6	Slab	Rectangular	3.15	346.5	M20	DWG-01	RO	<input type="checkbox"/>	03/09/2015	<input type="checkbox"/>	03/09/2015	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Fdn-1	Foundation	C-3	2.5X2.1X0.6	2.5	2.1	0.6	Slab	Rectangular	3.15	346.5	M20	DWG-01	RO	<input checked="" type="checkbox"/>	03/09/2015	<input type="checkbox"/>	03/09/2015	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Fdn-1	Foundation	C-4	2.5X2.1X0.6	2.5	2.1	0.6	Slab	Rectangular	3.15	346.5	M20	DWG-02	RO	<input type="checkbox"/>	03/09/2015	<input type="checkbox"/>	03/09/2015	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Fdn-2	Foundation	A-4	2.5X2.1X0.6X0.3	2.5	2.1	0.6	Slab	Sloping	2.2625	255.675	M20	DWG-02	RO	<input type="checkbox"/>	03/09/2015	<input type="checkbox"/>	03/09/2015	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Fdn-3	Foundation	B-3	3.3X3.5X0.85	3.3	3.5	0.85	Slab	Rectangular	9.8175	1079.925	M20	DWG-02	RO	<input type="checkbox"/>	03/09/2015	<input type="checkbox"/>	03/09/2015	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Fdn-3	Foundation	B-4	3.3X3.5X0.85	3.3	3.5	0.85	Slab	Rectangular	9.8175	1079.925	M20	DWG-02	RO	<input type="checkbox"/>	03/09/2015	<input type="checkbox"/>	03/09/2015	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Fdn-4	Foundation	B-1	2.5X2.6X1.0X0.4	3.5	2.6	1	Slab	Sloping	6.37	706.2	M20	DWG-01	RE	<input type="checkbox"/>	03/09/2015	<input type="checkbox"/>	03/09/2015	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Fdn-5	Foundation	C-1	2.5X2.6X1.0	2.5	2.6	1	Slab	Rectangular	6.5	715	M20	DWG-03	RO	<input type="checkbox"/>	03/09/2015	<input type="checkbox"/>	03/09/2015	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Fdn-5	Foundation	C-2	2.5X2.6X1.0	2.5	2.6	1	Slab	Rectangular	6.5	715	M20	DWG-03	RO	<input type="checkbox"/>	03/09/2015	<input type="checkbox"/>	03/09/2015	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Columns Report																							
Select	Tag	Description	GridRef	Size(mm)	Length	Breadth	Depth	ItemType	ItemSubType	ConcreteVolume	RebarWeight	ConcreteGrade	RebarGrade	DWGNo	RevNo	Excavation(M)	IsRebarPlacing	RebarComp	IsShuttering	Issets	IsConcreting	Concreting	
<input type="checkbox"/>	C-1	Column	A-1	300X300X4100	300	300	4100	Column	Square	0.369	33.21	0.369	FE415	DWG-003	RE	0.5	<input type="checkbox"/>	03/09/2015	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	03/09/2015
<input type="checkbox"/>	C-1	Column	A-2	300X300X4100	300	300	4100	Column	Square	0.369	33.21	0.369	FE415	DWG-003	RE	10.7	<input checked="" type="checkbox"/>	03/09/2015	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	03/09/2015
<input type="checkbox"/>	C-1	Column	A-3	300X300X4100	300	300	4100	Column	Square	0.369	33.21	0.369	FE415	DWG-003	RE	3.7	<input type="checkbox"/>	03/09/2015	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	03/09/2015
<input type="checkbox"/>	C-1	Column	A-4	300X300X4100	300	300	4100	Column	Square	0.369	33.21	0.369	FE415	DWG-003	RE	3.7	<input type="checkbox"/>	03/09/2015	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	03/09/2015
<input type="checkbox"/>	C-2	Column	B-1	400X300X4800	400	300	4800	Column	Rectangular	0.576	51.84	0.576	FE415	DWG-004	RE	3.7	<input type="checkbox"/>	03/09/2015	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	03/09/2015
<input type="checkbox"/>	C-3	Column	B-2	400X300X5100	400	300	5100	Column	Rectangular	0.612	55.08	0.612	FE415	DWG-004	RE	3.7	<input type="checkbox"/>	03/09/2015	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	03/09/2015
<input type="checkbox"/>	C-4	Column	C-3	400X400X5200	400	400	5200	Column	Rectangular	0.832	74.88	0.832	FE415	DWG-004	RE	3.7	<input type="checkbox"/>	03/09/2015	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	03/09/2015
<input type="checkbox"/>	C-5	Column	C-4	400X300X5000	400	300	5000	Column	Rectangular	0.6	54	0.6	FE415	DWG-004	RE	3.7	<input type="checkbox"/>	03/09/2015	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	03/09/2015
<input type="checkbox"/>	C-6	Column	C-6	400X300X4200	400	300	4200	Column	Rectangular	0.504	45.36	0.504	FE415	DWG-004	RE	3.7	<input type="checkbox"/>	03/09/2015	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	03/09/2015



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