

Response to the Queries on RFP for selection of OE for construction of CHP, 20-December-2016

Sl No.	Reference	Queries	Response
1	Clause No. 1. BACKGROUND, Page No. 4	<p>Please clarify the following:</p> <ul style="list-style-type: none"> i) Number of CHP and capacity. ii) Battery Limit of the project for which Owner's Engineer will provide their services in line with Detail Scope of Work of the RFP document. iii) Duration of the services for completion of the Scope of Work pertaining to the Owner's Engineer role iv) Timelines for review engineering and construction management work 	<ul style="list-style-type: none"> i) one CHP of 4000 TPH. The rated capacity of Coal Mine is 8 MTPA. ii) 2 Years + 1 year Warranty iii) 2 Years + 1 year Warranty iv) 2 Years
2	Clause No. 2.2. PROJECT STATUS, Page No. 4	<p>We understand that DCPL has prepared the Basic Engineering Report and the specifications for selection EPC contractor. Owner's Engineer will review the detail engineering, design calculation, procurement specification and drawings prepared by the EPC contractor based on the specification prepared by DCPL for this project along with the project monitoring and construction management. Please confirm.</p>	<p>DCPL has prepared the Basic Engineering Report and the specifications for selection EPC contractor. Owner's Engineer will review the detail engineering, design calculation, procurement specification and drawings prepared by the EPC contractor based on the specification prepared by DCPL along with the project monitoring and construction management.</p>
3	ANNEXURE I, Clause No. 4. COST OF VISIT, Page No. 14	<p>During the progress of the entire work as detailed in the Detail Scope of Work (Annexure II; Page No. 22-25) of the RFP document, personnel of Owner's Engineer (other than the personnel to be deployed at site) may have to visit the site. We understand that the cost towards such visit of Owner's Engineer personnel will be borne by OCPL as per the same Clause with local transport. Please confirm.</p>	<p>Please refer the Clause 4 of Annexure-I of the RFP. It is clearly mentioned in the note below that the "Payment towards visit to mine and Bhubaneswar Corporate Office will be borne by the Owner's Engineer"</p>
4	ANNEXURE I, Clause No. 13. SITE FACILITIES TO BE PROVIDED BY THE OWNER, Page No. 18	<p>We request OCPL to indicate the charges to be borne by the Owner's Engineer for their personnel to be deployed at site.</p> <p>Also clarify the following: Place (city/town etc.) of Owner's accommodation for Owner's Engineer site personnel. Whether local transport will be provided for Owner's Engineer site personnel from Owner's accommodation to site and vice versa</p>	<p>Details of the charges shall be provided to the selected/successful bidder.</p> <p>The location shall be as per the clause 2.1 of the RFP.</p> <p>Local transportation for the site personnel of OE shall be arranged by the OE</p>

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5	ANNEXURE I, Clause No. 16. TITLE TO PLANS AND SPECIFICATIONS, Page No. 19	We understand that Owner's Engineer will not prepare any drawings, designs, plans, specifications pertaining to the Project. Owner's Engineer will review the drawings, designs, plans, specifications, other documents and like materials specifically prepared by the EPC Contractor for this Project and indicate necessary corrections/modification for the above by providing comments, if any. Please confirm	Refer to the Scope of Work at Annexure-II of the RFP.
6	ANNEXURE I, Clause No. 19. SUBMISSION OF DRAWINGS & DOCUMENTS, Page No. 20	i) Details of crushing and screening facilities. ii) Loading and unloading facilities. Stockyard facilities. iii) Area layout, disposition of different units and flow diagram of CHP. iv) Indicate the list of facilities already exists in plant boundary. v) Details of source substation. vi) Primary voltage level. vii) Number of substation/ECR envisaged. viii) Automation configuration diagram, if any. ix) Type of Air-conditioning and Ventilation system envisaged. Whether Chiller plant is envisaged. x) Type of pollution control system envisaged (Dust xi) List of Transformers with rating, oil capacity and dimension. xii) Source of water.	i) Scheme is being prepared by DCPL, detailing will be done by the EPC Contractor. ii) Storage will be done in 30,000 MT over ground RCC Bunker. Wherefrom coal will be transported by high speed belt conveyor to the hopper for onward loading on to the wagons. iii) Flow diagram is enclosed. iv) It is a Green field project. v) The proposed CHP will receive power at 6.6 KV from the 33/6.6 KV Project substation located inside CHP area. vi) Primary voltage level.: Please refer the above clarification. vii) Tentative nos of 6.6 KV substations are 4 (Four). However exact distribution system shall be finalized during detail engineering. viii), ix), x) & xi: Shall be finalized during detail engineering. xii) Source of water-From Hirakud Reservoir through dedicated water pipeline.
7	ANNEXURE II, Clause No. 1.2. REVIEW OF DOCUMENTS UNDER "PROCUREMENT", Page No. 23	Please clarify whether setting up of CHP (the "Project") will be executed through single EPC contractor or there will be multiple EPC contractors for the execution of different packages of the	The construction of CHP is through a single EPC contractor. However, the EPC contractor may further appoint sub-contractors for execution of the work.

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8	ANNEXURE II, Clause No. 1.3. REVIEW OF QUALITY ASSURANCE PLAN, Page No. 23	<p>a. Please clarify whether Quality Assurance Plan (QAP) will be approved vendor wise separately or EPC Contractor wise for all their supplied equipment.</p> <p>b. We suggest to include the site performance test procedure for all major equipment and systems under Clause No. 2.4. PLANT TAKE-OVER SERVICE (Annexure II, Page No. 25) instead of Clause No. 1.3. b. (Annexure II, Page No. 23) as the above is site related work. We understand that shop performance test requirements will be taken care during Review of Vendor Quality Assurance Plan (refer ANNEXURE II, Clause No. 1.3.a., Page No. 23). Please confirm.</p> <p>c. Please clarify whether QAP will be amended for the whole lot in case of change order for a particular item of EPC contractor. Alternatively, QAP for the change orders will be approved afresh.</p>	<p>a. Please refer the Clause No.1.3 of Annexure-II of the RFP</p> <p>b. The understanding is correct. The scope in 1.3 (b) states an activity not the timing of the performance. Shop performance test for any equipment will be indicated in the contract of EPC, which will be ensured in the EPC contractor's QAP</p> <p>c. Amendment is not required.</p>
9	ANNEXURE II, Clause No. 2.3. SHOP INSPECTION AND TESTING SERVICES, Page No. 25	<p>Please confirm that inspection for items which are to be undertaken by Owner's Engineer will be identified in the approved QAP and before proceeding for inspection, permission will be obtained from the Owner upon receipt of inspection call from EPC contractors'.</p>	<p>The understanding is correct. Before proceeding for inspection, permission from the Owner is required.</p>
10	ANNEXURE II, Clause No. 2.1. PROJECT MONITORING, Page No. 24	<p>a. Whether Owner's Planning Engineer will be posted at site?</p> <p>b. We understand that Owner's Planning Engineer will review the detailed network schedules and updated versions of the same as will be prepared by other agencies and forwarded by Owner to Owner's Planning Engineer. Please clarify.</p> <p>c. We understand that Owner's Planning Engineer will review the progress as will be prepared by other agencies and forwarded by Owner to Owner's Planning Engineer and will analyse whether the same is as per Plan and will submit reports accordingly. Please clarify.</p>	<p>There will be a few Planning Engineers from Owner's side. However, Planning Engineer from Owner's Engineer side is also required for proper planning.</p>

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11	Clause No. 11. EVALUATION CRITERIA, Page No. 8	Clarification is requested on the number of key personnel/staff, which shall be considered for techno-commercial evaluation. Whether all the key personnel are to be deputed at site.	Adequate number of qualified staff for smooth functioning of the work shall be deployed by the Owner's Engineer. However, the Owner's Engineer is required to depute the minimum following manpowers at the site. 1. Resident Engineer-1 No 2. Mechanical Engineer-2 Nos 3. Electrical Engineer-1 Nos 4. Civil Engineer-2 Nos 5. C& I Engineer-1 No 6. Planning Engineer-1 No 7. Safety Engineer-1 No
12	APPENDIX - V: PRICE BID FORMAT, Page No 32	Please clarify the followings: i) Whether the price evaluation will be done for Stage - I & II combined or separately for Stage - I and Stage-II. ii) For Stage - II, what will be the basis of evaluation, whether it will be based on sum total under Sl. No. B or there will be some man-month capped for evaluation for each of the services under Sl. No. B. iii) What type of break-up for stage - II is required?	i) The price shall be evaluated considering the combination of both Stage-I & Stage-II. ii) It will be sum total of Sl.B considering the total period of construction and based on the number of minimum personnel as stated above iii) Break-up as per minimum personnel required mentioned above is required.
13	ANNEXURE I, Clause No 6.1. LINKED TO ACTIVITIES FOR STAGE-I, Page No. 15	Please clarify the followings: 1. The milestone in clause 5 for levying LD is not clear. The same may please be clarified. 2. The LD for delay @ 0.5% of the job value per week should be capped to 5% of the value of each stage as the case may be. 3 . We propose LD should be @ 0.5% of the job value of Stage - I or Stage - II as the case may be instead of the total job value	Provision of the RFP shall prevail.
14	ANNEXURE I, Clause No. 11. INSURANCE, Page No. 17	It is not applicable for Owner's Engineer. Please confirm.	Provision of the RFP shall prevail.
15	APPENDIX - III: TECHNO COMMERCIAL BID FORMAT, Clause No. 1.1., Page No. 29	Please refer Clause No. 5. QUALIFICATION REQUIREMENT (Page No. 5) and Clause No. 11. EVALUATION CRITERIA, Sl. No. 1 (Page No. 8) As per the above Clauses, the Owner's Engineer needs to show their experience on CHP successfully executed and commissioned in last ten (10) years. Please clarify the above	The understanding is correct.

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16	Additional Clause	Provision of yearly escalation should be on the residual job value, if delay is not attributable by Owner's Engineer	Price quoted shall be valid till the completion of the job along with the warranty period.
17	ANNEXURE II: DETAIL SCOPE OF WORK - STAGE-I: DESIGN ENGINEERING SERVICES...1.1. DETAIL ENGINEERING REVIEW	As per the clause, the scope has to include review engineering of basic studies, concept notes, EPC specification etc... However the overall scheme drawing/ write up is not provided along with RFP. Please provide overall scheme of CHP envisaged for installation at mine end and a brief description of the system to enable us to estimate the effort required for review engineering. Please indicate if CHP will involve crushing and screening plant , stacking and reclaiming facilities along with the stream of conveyors at mine end. Please clarify if coal washery is also envisaged.	Flow Diagram is enclosed. Around 80%-85% of the coal will be produced through Surface Mine by the Mine Operator. Crushing and screening of only 15-20% of coal is required. There is no provision of Stacker-cum Reclaimer and coal washery.
18	ANNEXURE II: DETAIL SCOPE OF WORK - STAGE-I: DESIGN ENGINEERING SERVICES...1.1. DETAIL ENGINEERING REVIEW	Review and approval of all the design drawings and documents will be carried out at home office. Please confirm.	Review and approval of all the design drawings and documents will be carried out either at home office or at site based on the requirement.
19	2.2. CONSTRUCTION MANAGEMENT: Owner's Engineer will depute a team of Engineers...	Please elaborate with regard to 1. No of engineers to be deputed at site 2. Expertise and experience required 3. Duration of deputation at site.	Refer Sl No. 11 above.
20	General	Project schedule is not defined in the RFP. Please provide broad time schedule for the following: 1. Order placement on EPC 2. Overall completion period 3. Number of stages of implementation, if any.	1. Order to the EPC contractor shall be placed during February 2017 (tentative) 2. 2 Years. 3. Two Stages (Mentioned in the scope of work at Annexure-II)
21	APPENDIX - IV: BID FORMAT FOR SUBMISSION OF TECHNO COMMERCIAL REQUIREMENTS - B. Details of resources available to carry out the Scope of Work for the Period of Association	Please indicate the minimum expected number of resources desired by OCPL, to enable the Consultant to score 20 points stated in the "Evaluation Criteria" of the RFP..	Refer Sl No. 11 above.

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SCHEDULE OF CONVEYORS

DESIGNATION	LENGTH (M) (APPROX)	WIDTH (MM)	RATED CAPACITY (TPH)	PRODUCT SIZE (MM)
BC1A	55	1600	1000	100
BC1B	55	1600	1000	100
BC1C	55	1600	1000	300
BC1D (FUTURE)	55	1600	1000	300
BC2A	105	1600	2000	100
BC2B	120	1600	2000	100
BC3A	180	1600	2000	100
BC3B	180	1600	2000	100
BC4A	655	1600	2000	100
BC4B	655	1600	2000	100
BC5A	390	1600	2000	100
BC5B	390	1600	2000	100
TC1A	185	1600	2000	100
TC1B	185	1600	2000	100

SCHEDULE OF CONVEYORS

DESIGNATION	LENGTH (M) (APPROX)	WIDTH (MM)	RATED CAPACITY (TPH)	PRODUCT SIZE (MM)
TC2A(FUTURE)	185	1600	2000	100
TC2B(FUTURE)	185	1600	2000	100
BC6A	200	1600	2000	100
BC6B	200	1600	2000	100
BC6C(FUTURE)	200	1600	2000	100
BC6D(FUTURE)	200	1600	2000	100
BC7A	220	1800	4000	100
BC7B	220	1800	4000	100
BC8A	810	1800	4000	100
BC8B	810	1800	4000	100
BC9A	60	1800	4000	100
BC9B	60	1800	4000	100

SCHEDULE OF MAJOR EQUIPMENT

EQPT. NO.	DESCRIPTION	PRODUCT SIZE (MM)	RATED CAPACITY
DH1	DUMP HOPPER	100	250~300 M ³
DH2	DUMP HOPPER	100	250~300 M
DH3	DUMP HOPPER	1200	250~300 M ³
DH4	DUMP HOPPER (FUTURE)	1200	250~300 M
AF1 - AF-2	APRON FEEDER	100	1000 TPH
AF3	APRON FEEDER	1200	1000 TPH
AF4	APRON FEEDER (FUTURE)	1200	1000 TPH
PC1	TWIN SHAFT SIZER (PRIMARY CRUSHER)	1200/300	1000 TPH
PC2	TWIN SHAFT SIZER (PRIMARY CRUSHER)-(FUTURE)	1200/300	1000 TPH
SC1	TWIN SHAFT SIZER (SECONDARY CRUSHER)	300/100	1000 TPH
SC-2	TWIN SHAFT SIZER (SECONDARY CRUSHER)-(FUTURE)	300/100	1000 TPH
PF1-PF4	PADDLE FEEDER	100	2000 TPH
PF5-PF8	PLOUGH FEEDER (FUTURE)	100	2000 TPH
RLS-1, RLS-2	RAILWAY LOADING SYSTEM	100	4000 TPH
FG1-FG2	FLAP GATE (TWO WAY)	100	1000 TPH
FG3-FG8	FLAP GATE (TWO WAY)	100	2000 TPH
FG9-FG10	FLAP GATE (TWO WAY)-(FUTURE)	100	2000 TPH
FG11-FG12	FLAP GATE (TWO WAY)	100	4000 TPH
MD-1 & MD-2	METAL DETECTOR	-	-
BW-1 & BW-2	BELT WEIGHER	100	-
ILMS-1 & ILMS-2	IN LINE MAGNETIC SEPARATOR	-	-
CS-1 & CS-2	COAL SAMPLER UNIT	100	-
CA-1 & CA-2	COAL & MOISTURE ANALYZER	100	-

A

A

B

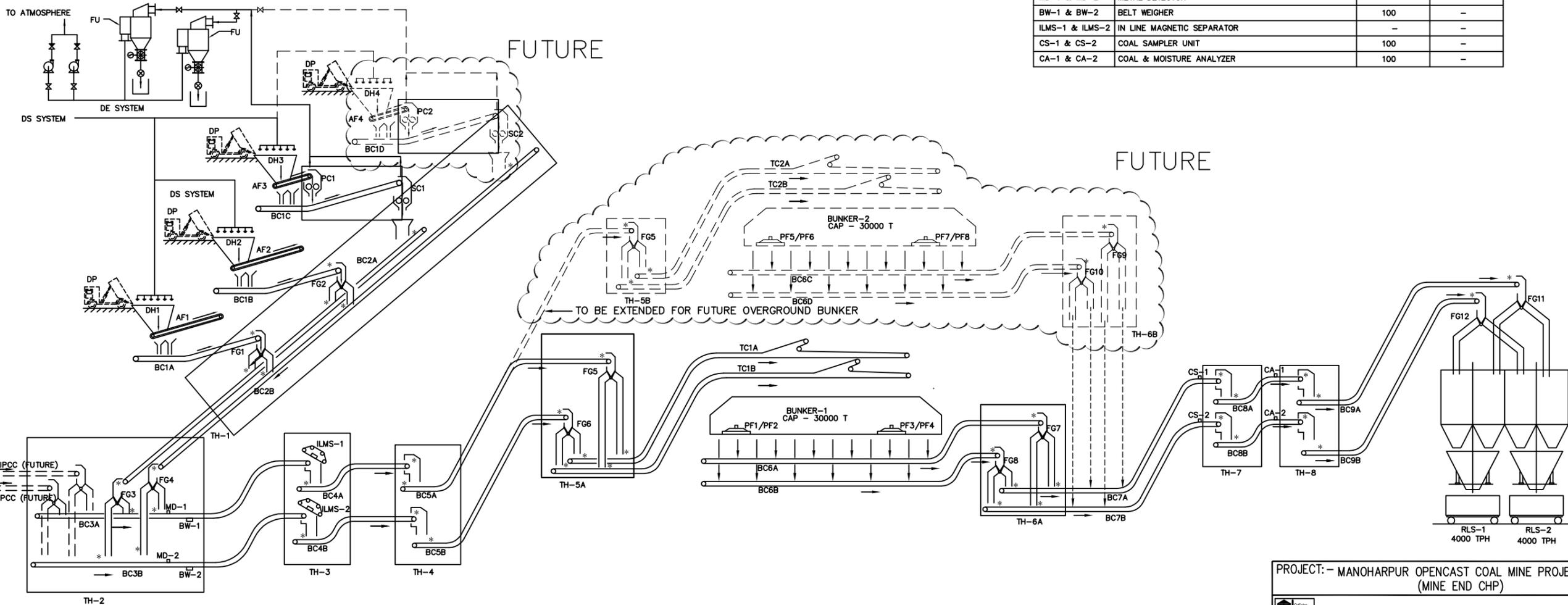
B

C

C

D

D



(*) DRY FOG TYPE DUST SUPPRESSION SYSTEM LOCATION
 WET TYPE DUST SUPPRESSION SYSTEM LOCATION

FOR TENDER ONLY

REVIEWED	ARG	AKD	SK	AP	DESCRIPTION	RELEASE STATUS	REV.	DATE
	ARG	AKD	SK	AP	REVISED AS PER CLIENT'S COMMENTS		2	28.05.14
	ARG	AKD	SK	AP	REVISED AS PER CLIENT'S COMMENTS		1	24.04.14
	ARG	AKD	SK	AP	-	FOR APPROVAL	0	07.04.14
	APPROVED	REVIEWED	CHECKED	DRAWN				

TITLE: -
PROCESS FLOW DIAGRAM

PROJECT: - MANOHARPUR OPENCAST COAL MINE PROJECT (MINE END CHP)

ODISHA COAL AND POWER LIMITED

PROJECT: - MANOHARPUR OPENCAST COAL MINE PROJECT
 MANOHARPUR BLOCK, IB-VALLEY COAL FIELD
 DIST. SUNDARGARH, ODISHA

CONSULTANT: -
DEVELOPMENT CONSULTANTS PVT. LTD
 CONSULTING ENGINEERS
 KOLKATA. MUMBAI. CHENNAI. DELHI.

JOB NO. 13L16 SCALE: NIL

DWG. NO. - 13L16-DWG-M-CHP-PF-001 REV. 2

CAD FILE NO. 13L16-DWG-M-CHP-PF-001

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