

ANNEXURE-2.1

ESTIMATION OF QUARRY CAPACITY

At the outset, it is to mention that sufficiency of material availability from Mandiyal Khad left bank quarry has been verified with respect to requirement of the project component from the very beginning.

The length of the quarry is 800 m.

The bottom level of the quarry is EL. 620 m. while the top level has been considered as plus EL. 800 m. Since the natural face of the rock escarpment is 45 degree or more. Considering a suitable cut-slope of 60 degree, it has been estimated that a solid volume of 56 lakh m³ can be exploited from the quarry. Considering a swell factor of 0.67, the aggregate availability from the quarry works out to be 84 lakh m³.

Against the above availability of 84 lakh m³ potential aggregate, the requirement for the components considering 38% wastage has been estimated as 72 lakh m³.

The capacity of quarry has been worked out as below (ref. **Exhibit-2.1**):-

Area at Section A = 16157 m²

Area at Section B = 13696 m²

Area at Section C = 13823 m²

Area at Section D = 12494 m²

Average Area = 14042 m²

Length of quarry site = 800 m

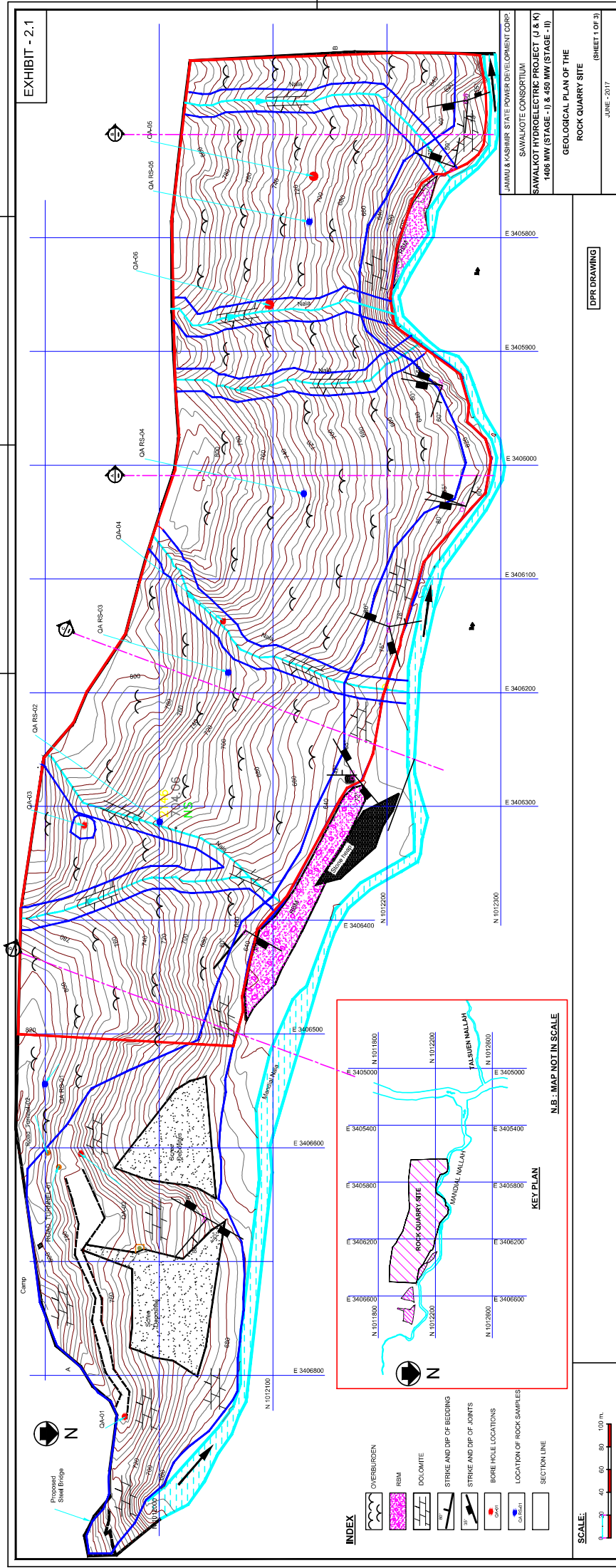
Volume = 1,12,33,600 m³

Considering 50% as useful material (on conservative basis), yield = 56.16 Lacs m³

Considering a swell factor of 0.67, the aggregate availability from the quarry shall be = 84 lac m³ (as a minimum).

The requirement for components considering 38% wastage has been estimated as 7.2 million m³.

The available quantity of rock material for production of aggregate is more than the requirement; hence the quarry capacity is sufficient.



SAWAL KOTE CONSORTIUM

SAWAL KOTE HYDROELECTRIC PROJECT (J & K)

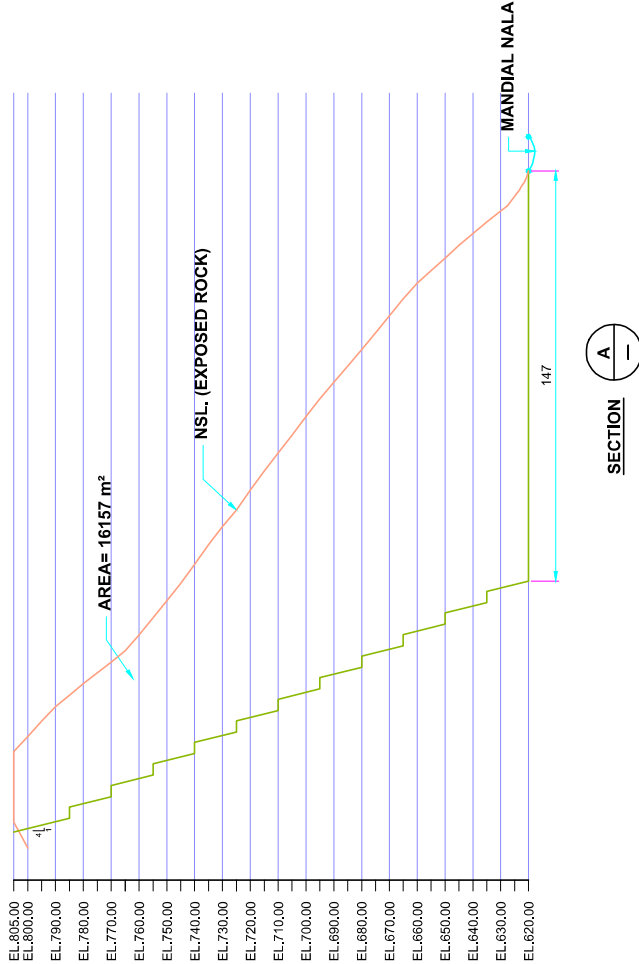
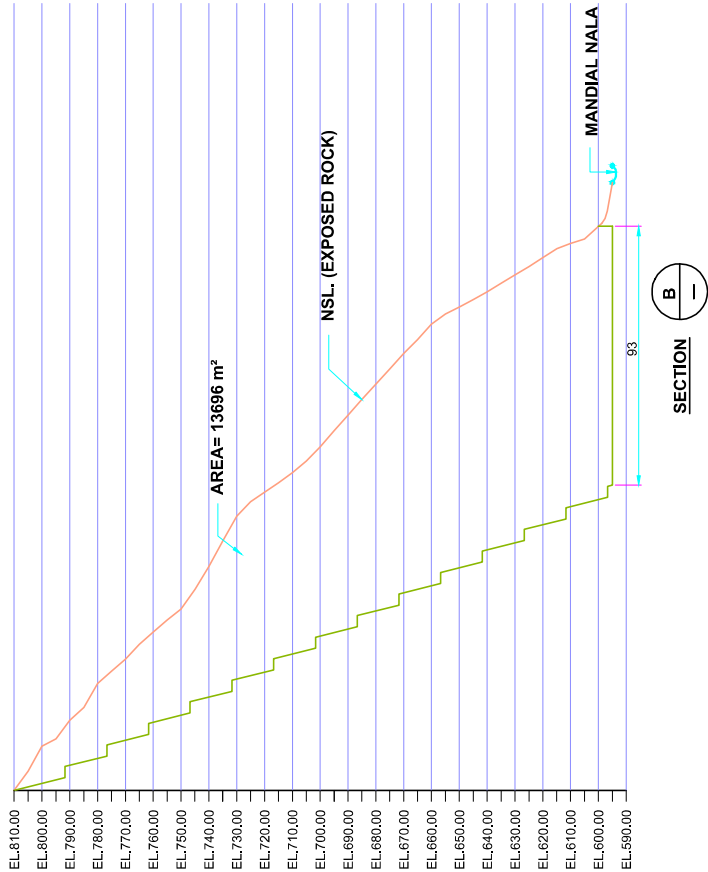
1406 MW (STAGE - I) & 450 MW (STAGE - II)

ROCK QUARRY SITE

(SHEET 1 OF 3)

DPR DRAWING

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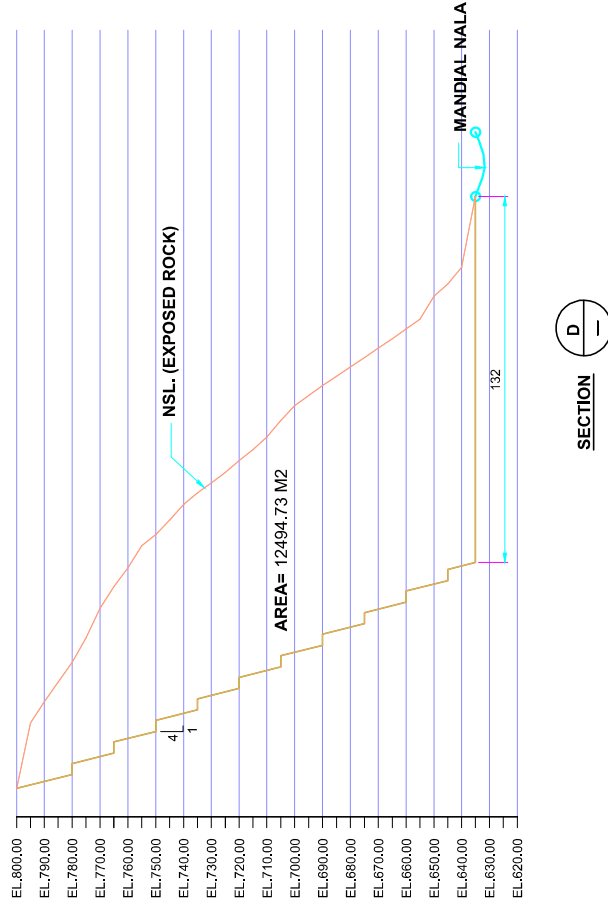
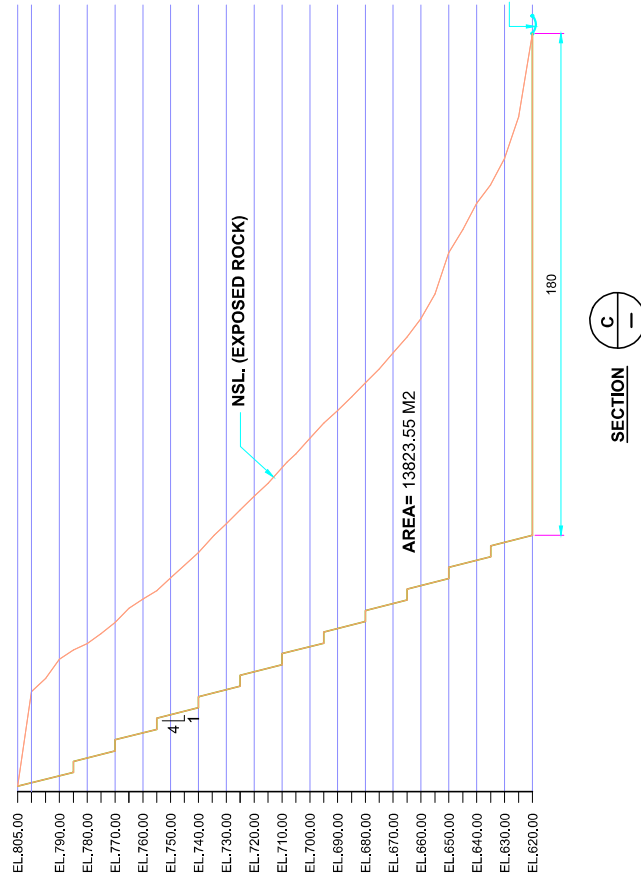


SCALE:



DPR DRAWING

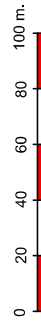
JAMMU & KASHMIR STATE POWER DEVELOPMENT CORP.
SAWALKOTE CONSORTIUM
SAWALKOT HYDROELECTRIC PROJECT (J & K) 1406 MW (STAGE - I) & 450 MW (STAGE - II)
ROCK QUARRY SITE SECTIONS A & B (SHEET 2 OF 3)
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SECTION

SECTION

SCALE:



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ROCK QUARRY SITE
SECTIONS C & D (SHEET 3 OF 3)
JUNE - 2017